

EE-472

1893

CATALOGUE

OF

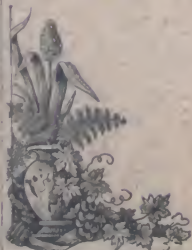
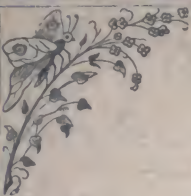
O. D. PIERCE & CO.  
*20 ap 93*

Manufacturers of and Dealers in

Electrical Supplies,

806 Walnut Street,

PHILADELPHIA, PA.



## Important Notice.

Parties unknown to us will be expected to remit cash with order, or if desired, we will forward goods by express, C. O. D., and charges provided an amount is remitted sufficient to pay express charges both ways.

Accounts will be opened with those desiring same, provided we are furnished with satisfactory references.

Credit accounts are payable 30 days from date of purchase and if not paid when due, are subject to draft at sight without notice.

Orders should be accompanied by shipping directions, otherwise we shall use our best judgment.

In ordering goods sent by mail purchasers will be expected to remit an amount sufficient to pay postage.

Boxing and cartage will be charged at cost.

We are not responsible for currency sent through the mails and lost.

We use extraordinary care in packing goods and cannot be held responsible for breakage in transit.

Claims for shortage, if any, must be made within 5 days after goods are received.

All prices subject to change without notice.

O. D. PIERCE & CO.

## To our Customers and others in the Trade :

Being among the pioneers in the Electrical business, we are in a position to understand and meet the wants and requirements of all concerned.

In our bells we have something that we can honestly say are first-class in every particular, all contact points are pure platinum, having the most improved methods of adjustment. Binding posts, hammer and gongs are plated, and every part is made under our personal supervision. Others may supply you with a cheaper bell, but none a better one.

Our make of disque leclanche battery as well as our cylinder carbon battery, are meeting with rapidly growing sales, and are giving first-class results among the Electrical trade. We are constantly receiving letters commending them from different parts of the U. S.

In the selection of Annunciators and burglar alarms we have used our best judgment in placing before our customers, those that are made under the best patented methods, and we recommend them to be of excellent quality. We spare no expense in having them made both artistic and reliable.

We carry a large stock of everything contained within this catalogue and in the future, as well as in the past we shall endeavor to satisfy the wants of our customers with goods that we can warrant to be first class.

We have the sole agency for a number of the goods herein, contained which places us in a position to sell them at the lowest market rates.

O. D. PIERCE & CO.

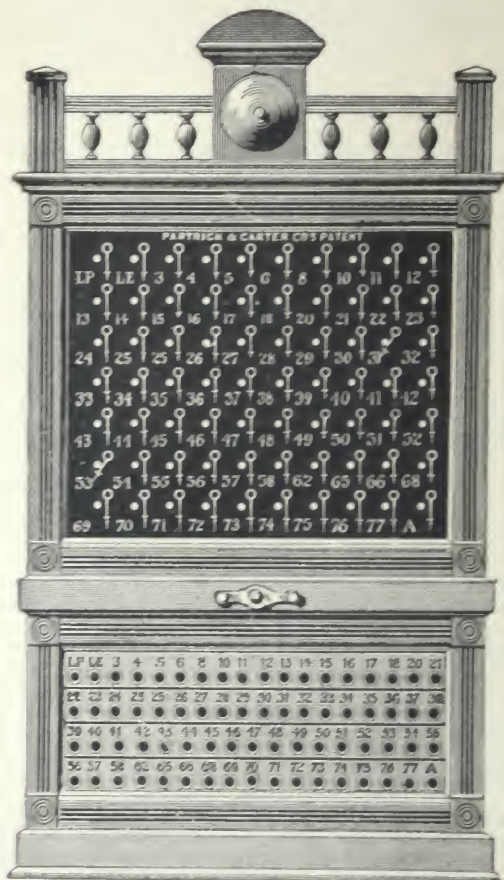
PHILADELPHIA, PA.

10 91-51269 75F



## ANNUNCIATORS.

## Annunciators, with Return Call System.



Style D.—With Return Call Only.

Made in any wood to suit office furniture.

For price of annunciator see page opposite.

Return call boards and fire alarm attachments are charged extra as follows :

## Prices of Return Call Boards.

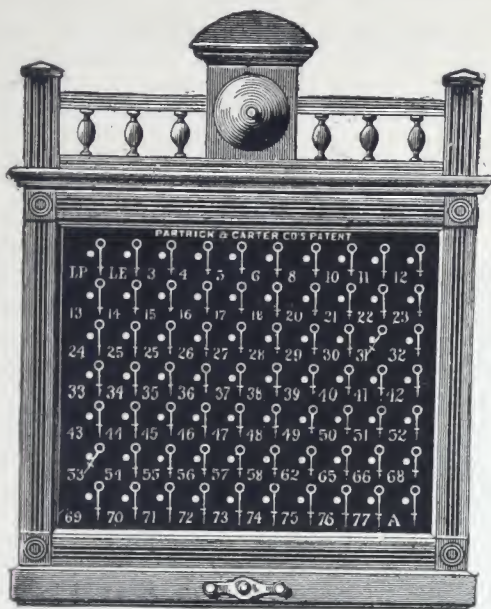
Mounted in any of our regular style cases, in addition to list price of Annunciators				
Per Number, from 20 to	30 Numbers			\$0 65
"	"	30 to 40	"	55
"	"	40 to 50	"	50
"	"	50 to 80	"	45
"	"	80 to 100	"	40

## Price of Fire Alarm Attachments.

Fire Alarm Attachment to Return Call Board, Single	\$30 00
Each additional Attachment	14 00



## HOTEL ANNUNCIATORS—Continued



Style D.

This is a substantial, durable and finely-finished case, with Nickel Mountings and Bell. Hinged Glass Front. A 4-inch Nickel-plated Bell is mounted on every Annunciator.

## PRICES.

	STYLE D.		STYLE D.
12 Numbers	\$24 00	70 Numbers	\$102 00
15 "	26 00	72 "	104 00
16 "	28 00	77 "	108 00
18 "	30 00	80 "	112 00
20 "	37 00	84 "	116 00
24 "	43 00	88 "	119 00
25 "	44 00	90 "	120 00
30 "	48 00	96 "	128 00
35 "	54 00	100 "	132 00
40 "	58 00	108 "	141 00
42 "	62 00	110 "	143 00
45 "	67 00	117 "	152 00
48 "	71 00	120 "	155 00
50 "	75 00	126 "	161 00
54 "	82 00	130 "	166 00
56 "	84 00	135 "	171 00
60 "	89 00	140 "	178 00
63 "	93 00	144 "	180 00
66 "	98 00	150 "	189 00

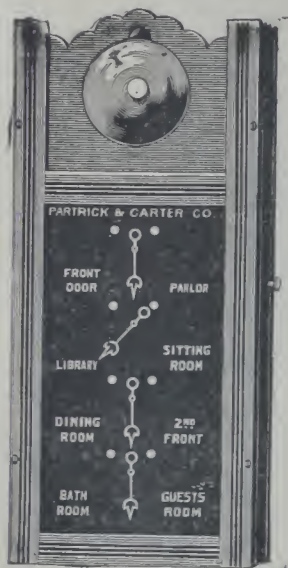
Over one hundred and fifty Numbers, special prices. Annunciators requiring Numbers between those specified in our list will be charged for at the rate per number given for the next highest number.

N. B.—When ordering Annunciators or Alarms the Indications should accompany the order, as well as the kind of wood and style of case wanted. If Cherry cases are wanted, please name style of finish desired, whether natural Cherry or Cherry stained. By so doing much unnecessary delay will be avoided.

## ANNUNCIATORS—Continued.

## PARTRICK &amp; CARTER CO.'S

## "New Automatic Set Back Annunciator."



It is a well recognized fact that the ordinary House Annunciator does not fully answer the purpose for which it is designed. Servants and others will not trip or restore the Drops, Needles or other indicating mechanism, and hardly ever know from which room or locality the call proceeds, as there are sometimes from two to four Pointers or Drops registering on the dial. In this we have at last perfected the Automatic system, in which only one, and that the last call, remains pointing or indicating; each new call resets the Pointer that indicated the previous call, no attention to the Annunciator other than observing the Dial when the call comes in being required. Each needle gives two indications. All those who have had any practicable experience with the ordinary Annunciators, which have to be tripped every time a call comes in, can appreciate this

## GREAT IMPROVEMENT,

Its advantages are: Absolute certainty of receiving the last call only as previous call was thrown down or tripped automatically when last call came in, *no tripping or resetting whatsoever being required, and no instructions over and over again regarding same having to be given servants.* Freedom from all complicated mechanisms and consequent durability. Competition with other makes or styles of Annunciators is out of the question when the merits of the Automatic Annunciator are understood.

We feel confident that if you will set up one of these Annunciators in your place of business as a sample exhibit, that you will find *your customers will have no other so soon as its merits are demonstrated, and its superiority once established you will not have to compete in estimating on contracts against those using the old style of Annunciators.*

Made at present in the following sizes:

## PRICES.

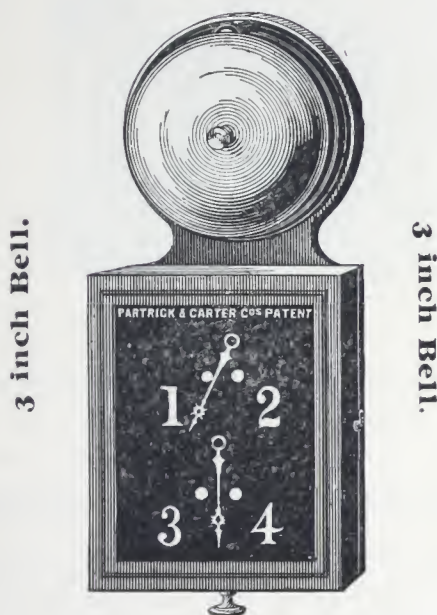
4 Numbers	.....	\$ 8 00
6 "	.....	10 00
8 "	.....	11 50
10 "	.....	13 00

We keep the "New Automatic" in stock in the following woods: Ash, Oak, Antique Oak, Walnut, Cherry, Cherry stained. Other woods to order.

## ANNUNCIATORS—Continued.

## THE KING ANNUNCIATOR.

Patented.



Made at present in 4 sizes only ; Oak and Walnut Cases ; Glass Front.

## PRICES.

2	Call, with Numbers	.....	\$3 00
2	" Lettered	.....	3 25
4	" with Numbers	.....	4 50
4	" Lettered	.....	4 75
6	" with Numbers	.....	6 00
6	" Lettered	.....	6 25
8	" with Numbers	.....	7 50
8	" Lettered	.....	7 75

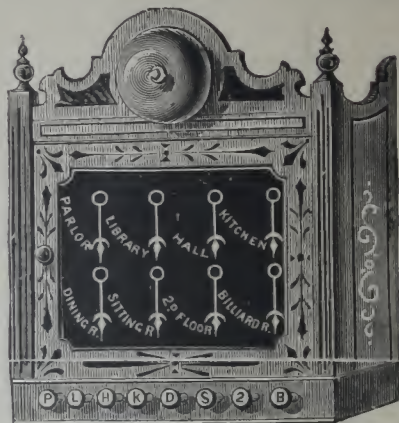
The above is a modification of the justly celebrated Indicating Bells. Sample of any size will convince you that they are *the* Annunciator for contract work where sharp competition must be met. Perfect in all its working parts and reliable in every way.

N. B.—In ordering, be sure to mention kind of wood wanted and lettering or numbers.



## ANNUNCIATORS—Continued.

## BURGLAR ALARMS.



Style No. 1.

Finely Finished Cases, Bells, Etc. Nickel-Plated, with Continuous Ringing  
Attachment, Silent Test, Etc.

## AUTOMATIC ANNUNCIATOR ALARMS.

All our Automatic Alarms designate the room in which a window or door has been opened, by a needle pointing to the name of the room or section from which the alarm proceeds. The needle remains pointing until reset; the bell, also continues ringing (even if the door or window be instantly closed) until the switch is turned off. The whole apparatus is finely finished and presents a very attractive appearance.

## PRICES.

4 Indications . . . . .	\$ 14 50
6     "     . . . . .	17 50
8     "     . . . . .	21 00
10    "     . . . . .	25 00
12    "     . . . . .	27 00
15    "     . . . . .	30 50
18    "     . . . . .	34 00

N. B.—When ordering Annunciators or Alarms, the Indications should accompany the order, as well as the kind of wood and style of case wanted. If Cherry cases are wanted, please name style of finish desired, whether natural Cherry or Cherry stained. By so doing much unnecessary delay will be avoided.

## ANNUNCIATORS—Continued.

## "HOUSE" ANNUNCIATORS.



Six Numbers.

The advantages of this Annunciator over other forms are these:

1st. The back, being hinged, can be fastened directly to the wall or other support, thus saving expense and trouble of a pair of brackets.

2d. The bell movements are completely protected from rust or derangement.

3d. By opening the case the connections can be gotten at without removing from the wall.

4th. Kept in stock in Walnut, Oak, Park Oak, Elm, Cherry and Cherry stained cases. Cases of any wood desired furnished to order. *Electric solenoids ordered. Following Bells will be sent with all Annunciators.*

## PRICE INCLUDING BELL.

3 Numbers . . . . .	\$9.00	13 Numbers . . . . .	\$14.00
4 " . . . . .	9.75	16 " . . . . .	16.00
5 " . . . . .	10.00	18 " . . . . .	17.00
6 " . . . . .	10.50	20 " . . . . .	18.00
8 " . . . . .	11.00	22 " . . . . .	19.00
10 " . . . . .	11.25	24 " . . . . .	20.00
12 " . . . . .	12.00	26 " . . . . .	21.00

N. B.—Return Call Boards can be attached to any of the above. This makes a first class cheap form hotel annunciator.

## ANNUNCIATORS—Continued.

# COMBINATION BELL

## and PUSH BUTTON.

(Patented)

Next in importance to the Annunciator in the Return Call System is the Room Bell and Push.



Exterior View  
Size,  $3\frac{1}{2} \times 4\frac{1}{2}$  inches.

PLEASE ANSWER  
A CALL ON THIS  
**ELECTRIC BELL**  
BY PRESSING THE  
**PUSH**

### Signals to Office:

- 1 PUSH—BOY WANTED.
- 2 PUSHES—ICE WATER.
- 3 PUSHES—CHAMBERMAID.
- 4 PUSHES—PORTER.
- 5 PUSHES—HOT WATER.
- 6 PUSHES—STATIONERY.

Signals May be Changed  
to Suit.

This Combination Bell can be furnished to order in Nickel, Dark Bronze, Antique Copper or Oxydized Silver, for which an extra price is charged. Suitable cards giving directions for different calls and whether five alarm or return call are sent with each bell.

For Return Call only, Bright Bronze Finish, each	\$1.20
For Return Call and Fire Alarm, Bright Bronze Finish, each,	1.20



## ANNUNCIATORS—Continued.

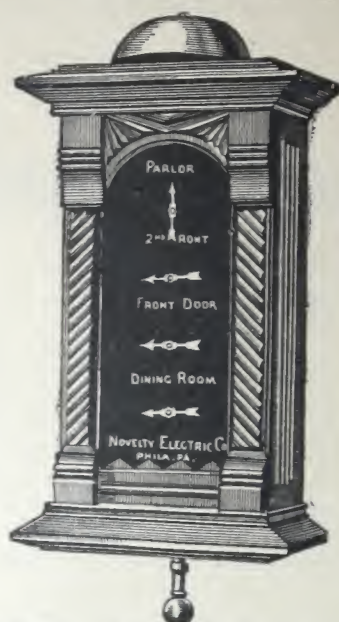
## Return Call System.

The Return, or Guest Call System, is composed of an Annunciator for office as usual, but having a series of push-buttons attached in same case and under the dial of Annunciator; these pushes correspond to the number of rooms as on the dial. The same wire answers for a circuit from room to Annunciator and from push on Annunciator to bell in room. Only one extra wire from battery is used, one branch of connecting wire from it being taken into each room. Five cells of battery are used for the Annunciator and the return call circuit. An open and closed circuit push is used in rooms. In case of fire, the guests can be alarmed by pressing the push at the Annunciator. This answers well for a small hotel or where the proprietor wishes to avoid the expense of the Combined Guest Call and Fire Alarm System. You will see by the foregoing that in calculating the cost of placing the above-described system you will have to figure the cost of Annunciator with the Return Call Board attached, the room bells and pushes in our combination, five cells of battery, wire to rooms, and your labor in placing the apparatus, running wires, etc.

### RETURN CALL AND FIRE ALARM COMBINED

As in the preceding description, there is an Annunciator in the office, with the Patent Combination Bells and Pushes in each room. Each room bell can be rung separately, or the whole at once, or simultaneously, by merely turning the knob placed on push button board at Annunciator; but in order to thus ring all bells at once, provided our Combination Bells are used, you will have to use say four cells of battery to each ten bells. Properly marked connections for all these batteries are placed on Annunciator. An extra wire to each room bell will have to be run. Only one general battery wire is required. You will see from this, in estimating to place this system, you will have to calculate or allow for twenty-three cells more battery than is required for the first-described system, and an additional wire to each room bell from the Annunciator, and also for the Fire Alarm Attachment—the rest of the apparatus will cost the same as that before described. Now, to avoid the use of so many cells of battery, we offer the following suggestion:

As most hotels have three or more floors, the better plan would be to give the alarm to the various floors separately, thus ringing all bells on the first floor where the fire is located; *this alarms all guests in the immediate vicinity of the fire, and the other floors can be alarmed at will and their effects, baggage, etc., quietly removed.* In case the fire has got under full headway before discovered, *all bells can be rung inside of eight seconds, and the alarm repeated as often as necessary.* To place a system where the various floors can be alarmed separately or all inside of eight seconds, you will require, for a seventy-room hotel, say twenty-three rooms on a floor, ten cells for Alarm and four for Annunciator, fourteen in all, instead of thirty-four; but the call-board at Annunciator, will require three Alarm Attachments instead of one, which will add to expense over the cost of the one attachment where the thirty-four cells are used, but a great saving will be effected in cost of maintaining batteries, etc.



### HOUSE ANNUNCIATOR.

Style AA. Case.

4	Needles, each	.....	\$6 50
6	"	.....	9 00
8	" and over per Needle,	.....	1 25



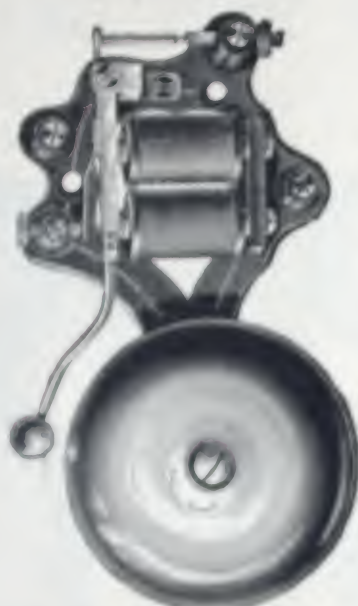
### BURGLAR ALARM No. 2.

Burglar Alarm, 4	Needles,	.....	\$12 75
"	" 6	.....	18 00
"	" 8	and over, per Needle,	1 25

The above are Artistic in appearance and thoroughly reliable.

# O. D. PIERCE & CO.'S IRON \* FRAME \* BELL.

(Pivoted Armature.)



THE "EMPEROR"

## TO THE TRADE:—

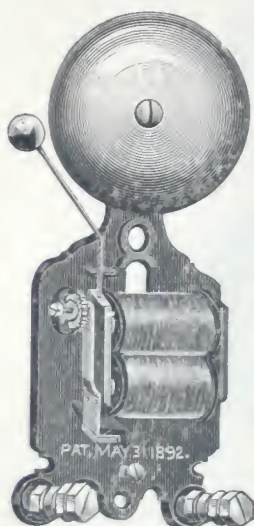
We desire to call your attention to our new Iron Frame Bell with pivoted armature. This is without doubt the best and neatest Iron Frame Bell upon the market. It is made in sizes from three to twelve inches, every part plated, with contact points of platinum, and for purity of tone is excelled by none. It is made by skilled workmen, by the aid of recently perfected machinery, and gives the most perfect satisfaction of any Iron Frame Bell that we ever made. To those desiring a first-class bell in every particular, we would recommend this above all others. We shall always carry a large stock of these bells on hand, and will be enabled to fill orders for any quantity you may want at the shortest notice, without any delay whatever. A trial will convince you that it is the best bell of its kind in the market.

3 inch,	.....	\$2 15
3½ "	.....	2 50
4 "	.....	3 00
5 "	.....	3 75
6 "	.....	4 50
7 "	.....	5 50
8 "	.....	7 00
9 "	.....	8 00
10 "	.....	14 00
12 "	.....	18 00



## ELECTRICAL BELLS—Cont.

## IRON BOX BELLS.



Style R without Box



Style R with Box

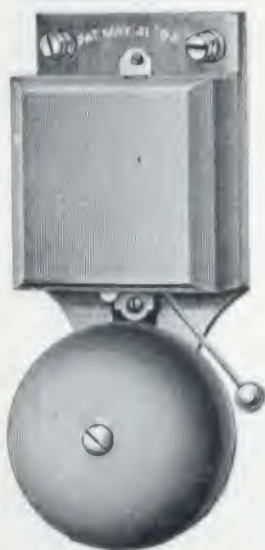
This Bell meets every requirement for a good substantial Bell at a popular price. It has the most approved method of adjustment, with Nickel Plated Gong, Hammer and Posts, giving it a very neat appearance, while the composition of the Gong, and durability of construction, make it one of the best in the market.

Made in sizes from  $2\frac{1}{2}$  to 4 inches.

$2\frac{1}{2}$ inches,	.....	\$0 78
3     "	.....	80
$3\frac{1}{2}$ "	.....	1 05
4       "	.....	1 20

## ELECTRICAL BELLS—Cont.

## WOOD BOX BELL.



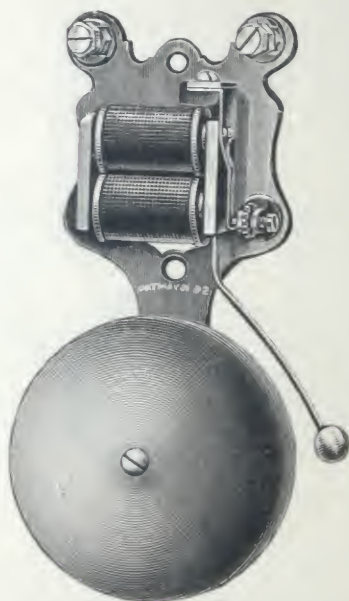
Style X

Our new Improved Wood Box Bell, has given first-class results. They are neat in form and appearance, and made in four different kinds of wood. Walnut, Oak, Ash and Cherry. Contact points are platinum, box being fastened by spring lock, obviating the danger of the box falling off as with the old style hooks. A first-class bell in every respect.

2½ inches, . . . . .	\$0 95
3 " . . . . .	1 00
4 " . . . . .	1 35
5 " . . . . .	1 50

## ELECTRICAL BELLS—Cont.

# Iron Frame Bell.



Style Y.

For a low priced, well made Bell, this one answers the purpose, made in sizes from  $2\frac{1}{2}$  to 4 inch Gong, Hammer and Binding Posts plated, with contact points of platinum, and improved adjustment.

$2\frac{1}{2}$ inches,	.....	\$0 70
3     "	.....	75
$3\frac{1}{2}$ "	.....	1 00
4     "	.....	1 10



## ELECTRICAL BELLS-Cont.



Sleigh Bell, 7 inch diameter, S. P. Gong, Ltd. . . . . \$1 01  
 Rectangular Bell, 7 inch diameter, S. P. Gong, Ltd. . . . . 1 07  
 Open Bell, 7 1/2 inch diameter, S. P. Gong, Ltd. . . . . 1 20

## BUZZERS.



The tone can be easily increased or diminished by a slight movement of adjusting screw, thus allowing the use of two or three in the same room.

Walnut, Ash or Cherry, each . . . . . \$0 35



## Made in Four Sizes.

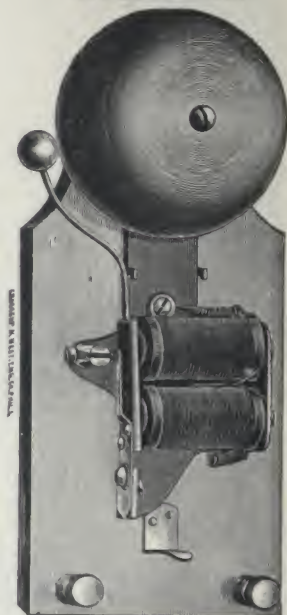
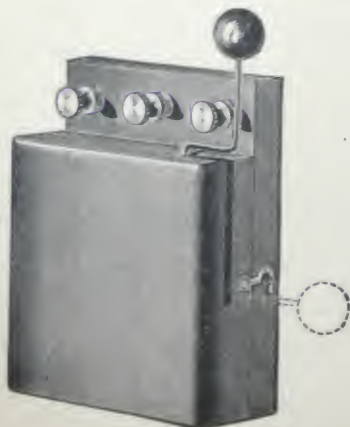
No. 0,	\$0 25
" 1,	75
" 2,	80
" 4,	85

## ELECTRICAL BELLS—Cont.

**NORWAY IRON FRAME BELLS.****WOOD BOX.**

Without Cover.

2½ inches diameter N. P. Gongs, list . . . . .	\$ .00
3 " " " " " " . . . . .	1 10
4 " " " " " " . . . . .	1 50
5 " " " " " " . . . . .	2 00

**AUTOMATIC DROP.**

This attachment is used to close a bell circuit automatically so that the bell will ring until ball is raised to its proper position.

Made in polished Walnut case . . . . . \$1 50

# Stewart Carbon Battery

**FOR OPEN CIRCUIT USE.**



Since we first placed this battery upon the market it has met with rapidly increasing sales and for a carbon battery is second to none.

In case of a short circuit if the carbon cylinder is thoroughly washed and dried, a new zinc and fresh Salammoniac substituted it can be made as strong as at first. The negative element is indestructible.

## A TRIAL ORDER WILL CONVINCE YOU OF ITS MERITS

Cell complete	\$0.85
Carbon Cylinder	.55
Jar	.15
Zinc	.10
Insulator	.01
Sal-Ammoniac per package	.08



## BATTERIES—Cont.



Samson No. 2

No. 2 Complete . . . . .	\$1 20
" 2 Carbon Vase . . . . .	82½
" 2 Zinc . . . . .	19½



Samson No. 1

No. 1 Complete . . . . .	\$1 05
" 1 Carbon Vase . . . . .	67½
" 1 Zinc . . . . .	18

## OUR IMPROVED POROUS CUP BATTERY.



The ingredients used in this cup are of superior quality. The top of the carbon is specially treated. The composition will not easily chip off and expose the lead connection to the action of the acid.

We have been supplying our trade with this battery for several years past, and among the thousands we have sold, we have not in a single instance heard of a complaint. We use only the very best material in its construction and our long experience in the business enables us to understand what our customers require.

Cell complete . . . . .	\$ 80
Porous cup . . . . .	50
Jar . . . . .	15
Sal Ammoniac . . . . .	10
Zinc . . . . .	10

## BATTERIES—Cont.

**Novelty Grenet**

Brass complete . . . . .	\$1 35
Nickel " . . . . .	1 45
Jars . . . . .	30
Zincs . . . . .	15
Carbons each . . . . .	10

**Mesco Dry Battery**

Price each . . . . . \$0 75

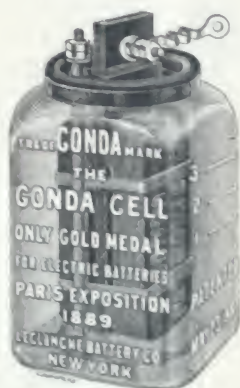
**Burnley Dry Battery**

Price each . . . . . \$0 90

## BATTERIES—Cont.

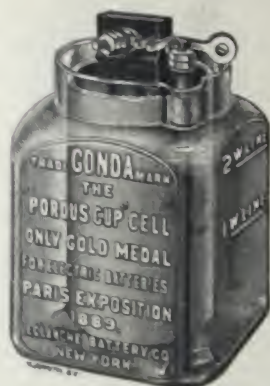
## LECLANCHE BATTERIES.

Gonda Cell



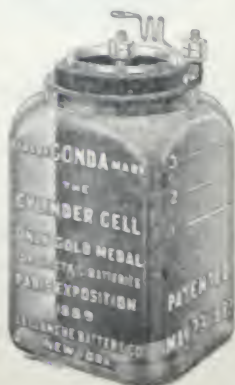
Price complete . . . . . \$1 20

Cylinder Cell



Price complete . . . . . \$1 20

Porous Cup



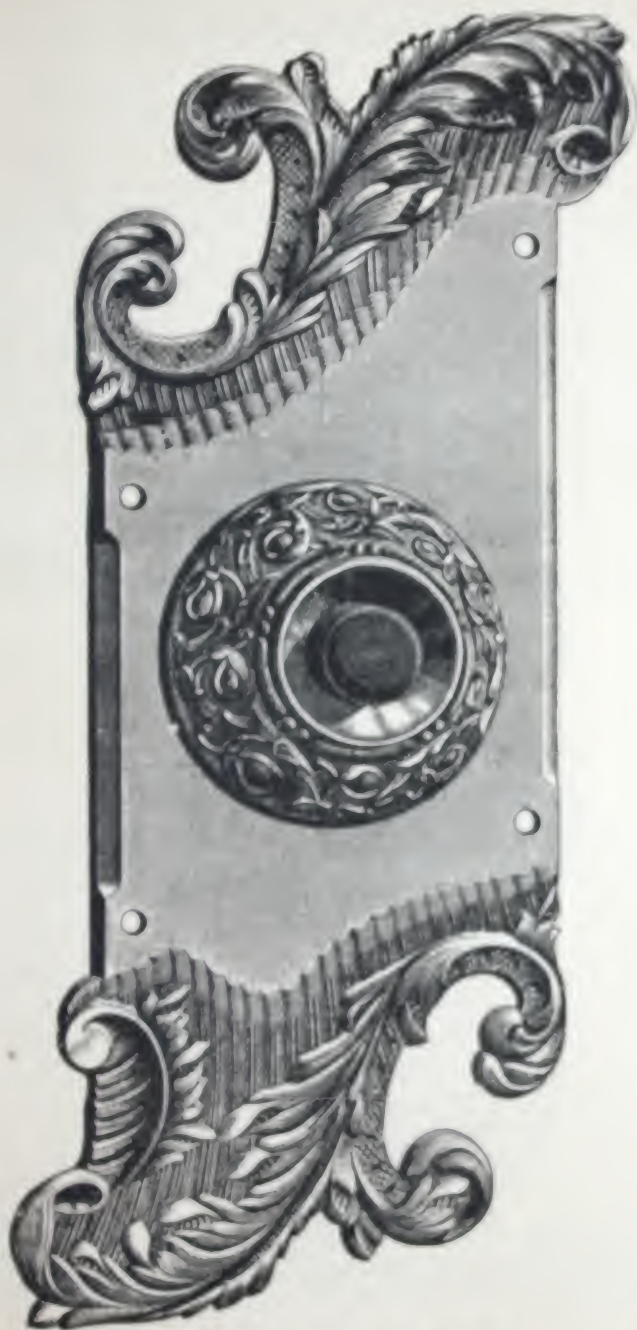
Price complete . . . . . \$ 85

Axo Cell



Price complete . . . . . \$1 00



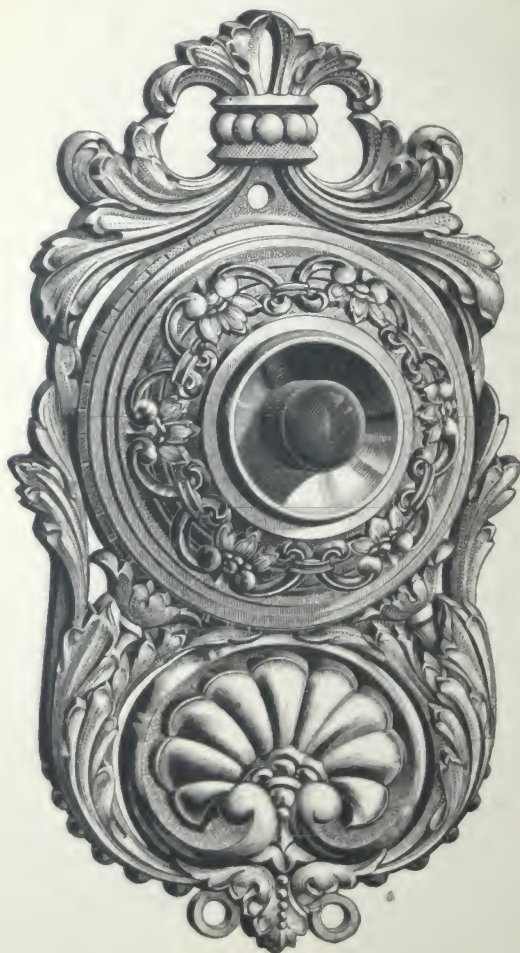


**THE "IMPERIAL."**

Cut full size made in Gold bronze, Antique copper, Antique brass, Natural and Mottled Copper. Price \$1.25

PUSH BUTTONS—Cont.

## ORNAMENTAL PUSHES.



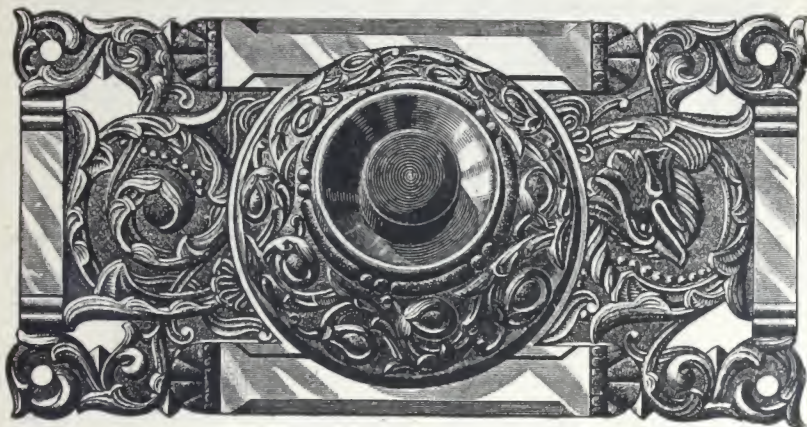
Style A.

Cut full size, made in light or dark. Price \$1.15



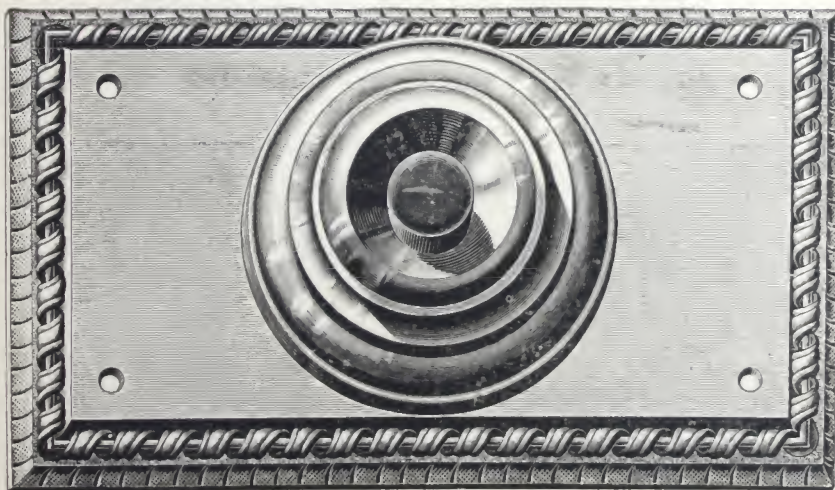
PUSH BUTTONS—Cont.

## ORNAMENTAL PUSHES.



**Style B.**

Made in Gold bronze (light) Antique copper (dark). Price each \$1.00

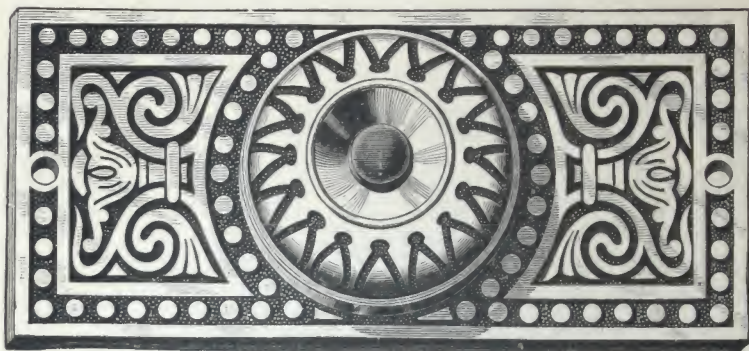


**Style C.**

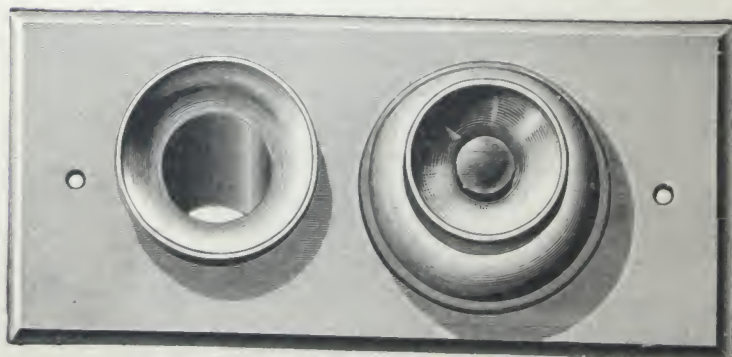
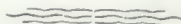
Made in Gold bronze (light) Antique copper (dark). Price each \$1.15,



## PUSH BUTTONS—Cont.

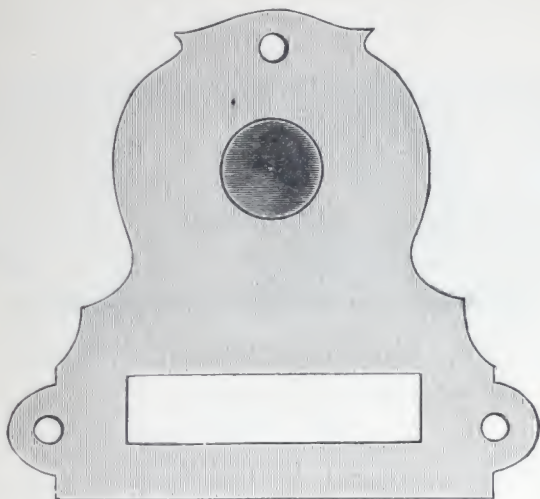
**Style D.**

Screw top.  $5\frac{3}{4} \times 2\frac{1}{2}$ . Price . . . . . \$0 95

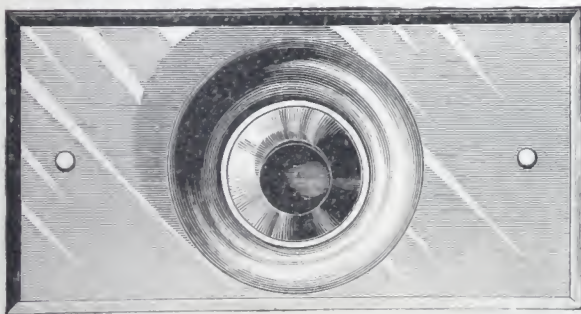
**Style E.**

Combination Push,  $6 \times 2\frac{3}{4}$ . Price . . . . . \$1 10

## PUSH BUTTONS—Cont.

**Style F.**

Cut full size. Price . . . . . \$0 45

**Style G.**

With screw top. Price . . . . . \$0 75

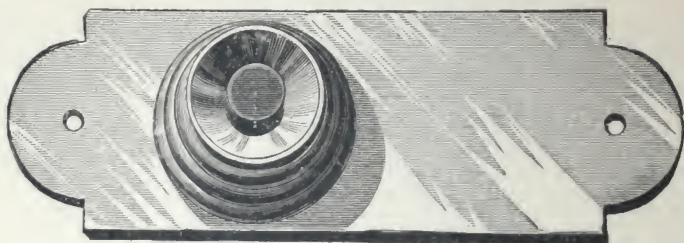
Without " " . . . . . 60

This is the only push that we make with and without screw top, it is also made as a double and triple push with screw top.

Double push . . . . . 1 25

Triple " . . . . . 2 00

## PUSH BUTTONS—Cont.

**Style H.**

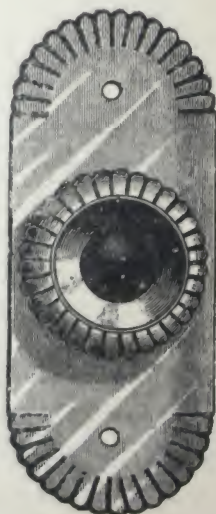
Size  $5\frac{1}{4} \times 1\frac{3}{4}$ . Made either plain or ornamental,

Plain . . . . . \$0 62

Ornamental . . . . . 62

**Style I.**

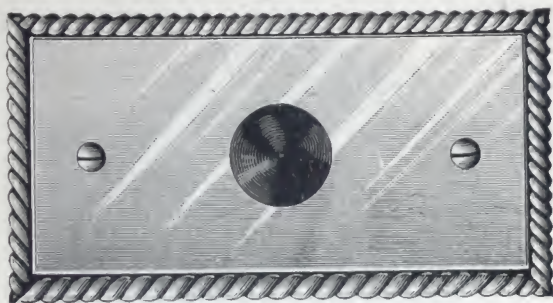
Size 2x4. Price . . . . . \$ 50

**Style J.**

Size 4x1  $\frac{3}{4}$ . Price . . . . . \$ 55



PUSH BUTTONS Cont.



**Style K.**

Size  $3 \times 1\frac{1}{2}$ . Price . . . . . \$ 40



**Style L.**

Size  $3\frac{3}{8} \times 1\frac{1}{4}$ . Price . . . \$0 40  
Made in ornamental and plain.



**Style M.**

Size  $3 \times 1\frac{1}{2}$ . Price . . . \$0 40  
Made in beaded and ordinary Flat styles.

## PUSH BUTTONS Cont.

**Style N.**

Diameter  $2\frac{3}{8}$ . Screw top. Price . . . . . \$0 45

**Style O.**

Diameter  $2\frac{3}{8}$ . Screw top. Price . . . . . \$0 42

PUSH BUTTONS Cont.



Style W.

Light or dark. Price, each . . . . . \$1 15



## PUSH BUTTONS Cont.

**Style Z.**

Screw top. Gold bronze, or Antique copper. Price each . . . . . \$ 60

**Style Q.**

Light or dark. Price . . . . . \$ 75

## PUSH BUTTONS Cont.

**Style P.**Diameter  $2\frac{3}{8}$ . Screw top. Made either ornamental or plain.

Price plain . . . . .	\$ 50
" Ornamental . . . . .	60

**P. No. 2.**

P. No. 2 is a push button designed for a cheaper grade of work. It is similar to style P. but does not have screw top. It is neat in appearance and like style P. is made either ornamental or plain.

Size of base $2\frac{1}{4}$ . Price . . . . .	\$ 27
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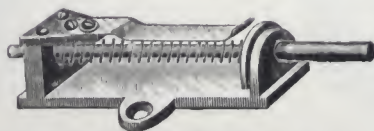
## WOOD PUSH BUTTONS.



Ash, oak or walnut.

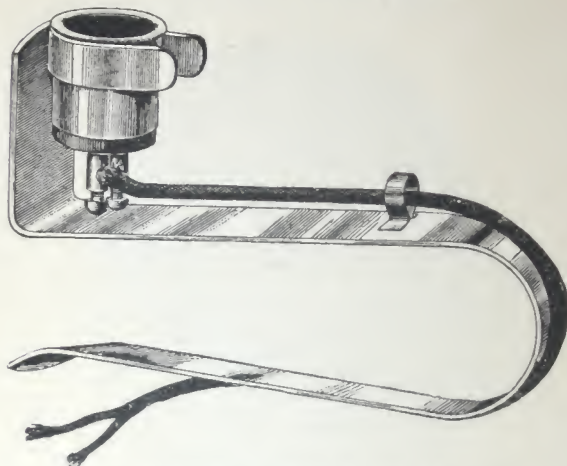
Wood Push buttons $2\frac{1}{4}$ in diameter . . . . .	\$ 20
" Midget " $1\frac{1}{4}$ " . . . . .	20

## Electric Door Pull Attachment.



For use in connection with ordinary door bell. Price . . . . .	\$0 50
Double Circuit for ringing two bells at one time. " . . . . .	65

## PUSH BUTTONS Cont.



## IMPROVED TABLE CLAMP.

Easily and quickly adjusted. We consider it the best in the market.

Clamp with push . . . . .	\$0 75
Clamp without . . . . .	50



## Desk Push

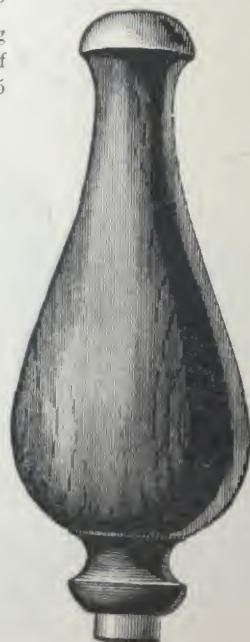
No. 1 Price each . . . . . \$ 25

No. 2. is similar to No. 1. excepting that it has screw head method of attachment. Price . . . . . \$ 25



Pear Push No. 1.

Price . . . . . \$ 45



Pear Push No. 2.

Price . . . . . \$ 50

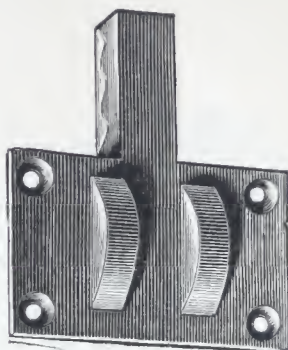


# DOOR AND WINDOW SPRINGS.



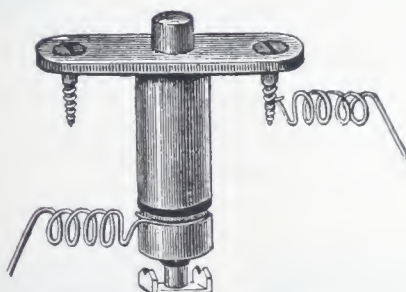
Single Window Spring

Price . . . . . \$ 20



Improved Double Window Spring

Price . . . . . \$ 35



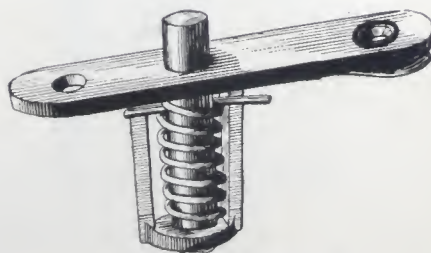
Door Spring No. 3.

Price . . . . . \$ 20



Door Spring No. 1.

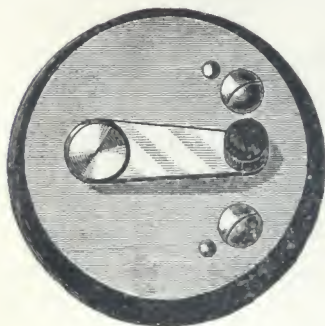
Price . . . . . \$ 25



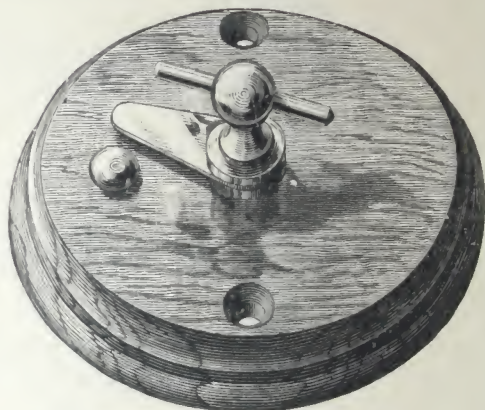
Door Spring No. 2.

Price . . . . . \$ 20

# BELL SWITCHES.

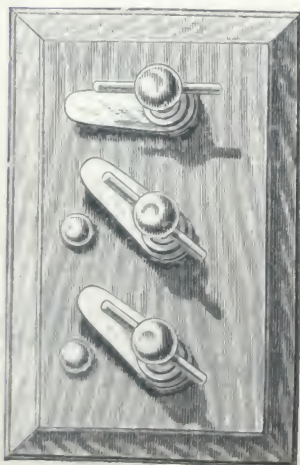


Switch No. 1.

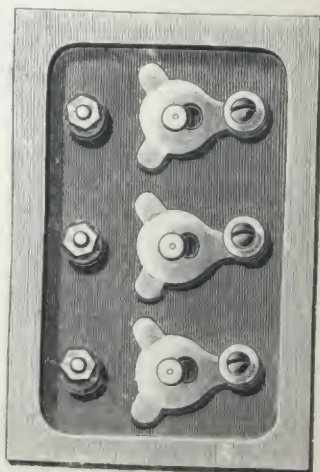


Switch No. 2.

1 Pt. No. 1 Switch . . . . .	\$ 21
2 " " " . . . . .	30
3 " " " . . . . .	40
4 " " " . . . . .	48
Switch No. 2, 1 Pt., Price . . . . .	25



FRONT

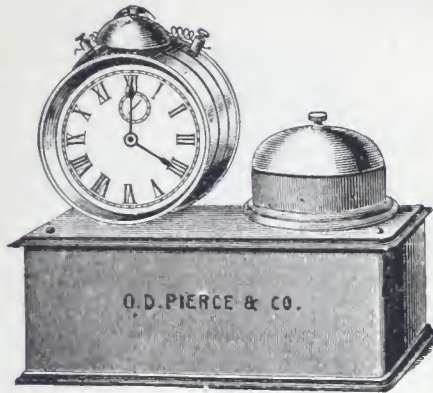


BACK

Switch No. 3.

1 Pt. No. 3 Switch . . . . .	\$ 25
2 " " " . . . . .	40
3 " " " . . . . .	60

## COMBINATION ALARM CLOCK



This can be used both as an electrical or mechanical clock, either style independent of the other.

Electric Alarm clock . . . . .	\$2 50
3 inch Gong . . . . .	1 00
Case for battery, etc., . . . . .	85
One cell battery . . . . .	75
One yard silk conductor cord . . . . .	25
Total outfit . . . . .	5 35

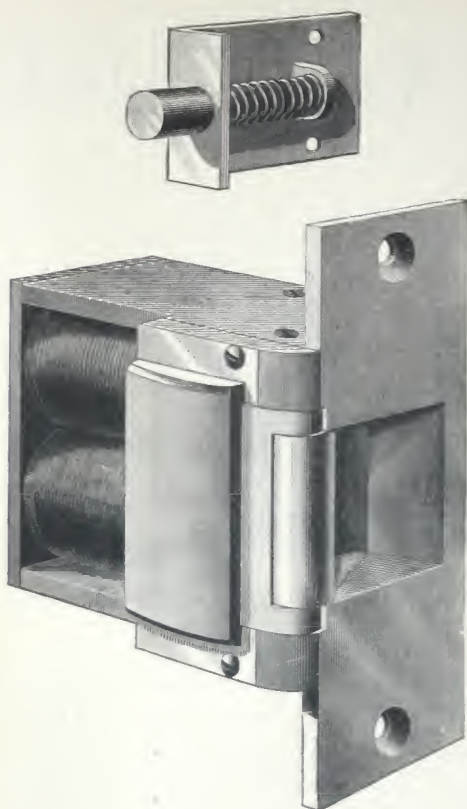


## SPARK COIL.



Price . . . . . \$2 50





## «ELECTRIC»

### Door Opener.



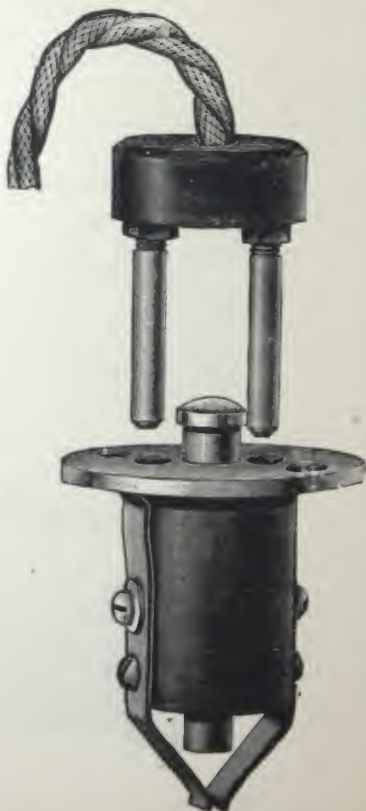
Compact, direct acting, strong. Answers for right or left hand doors. Each one carefully tested under heavy pressure. Push spring and screws furnished with each opener.

A, 2 in. wide,  $2\frac{1}{4}$  in. deep,  $\frac{7}{8}$  in. thick, 1 in. opening.

B,  $2\frac{1}{4}$  in. wide,  $2\frac{3}{4}$  in. deep, 1 in. thick,  $1\frac{1}{8}$  in. opening.

C,  $2\frac{1}{2}$  in. wide,  $2\frac{7}{8}$  in. deep, 1 in. thick,  $1\frac{1}{2}$  in. opening.

Price complete . . . . . \$7 50



## «COMBINATION»

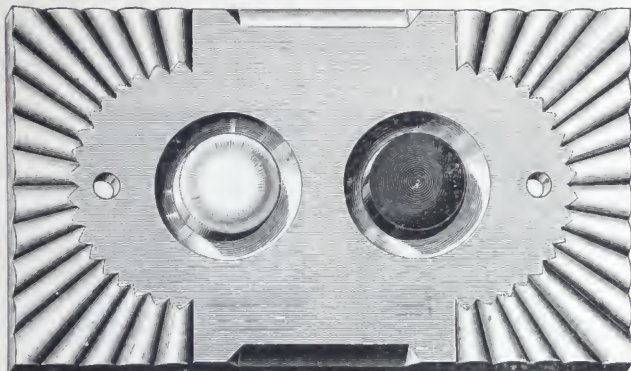
### FLOOR ÷ PUSH.



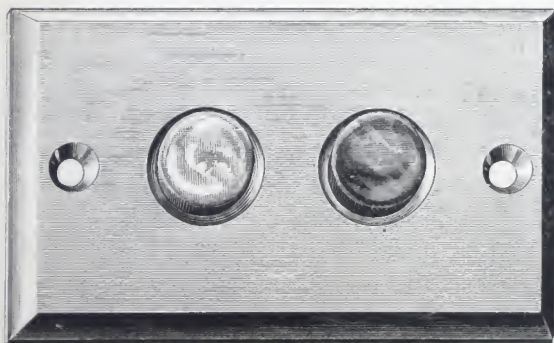
Combination floor push . . . . . \$ 75

Plain " " " " " 50

# ORNAMENTAL Gas Lighting Keys.

**Style X.**

Made in Gold bronze, with two buttons. Price each . . . . . \$1 35

**Style Y.**

We make this style in nickel plated brass, as follows:

2	Button	key	1	Automatic	. . . . .	\$) 60
4	"	"	2	"	. . . . .	1 00
6	"	"	3	"	. . . . .	1 35
8	"	"	4	"	. . . . .	1 75
10	"	"	5	"	. . . . .	2 00
12	"	"	6	"	. . . . .	2 50

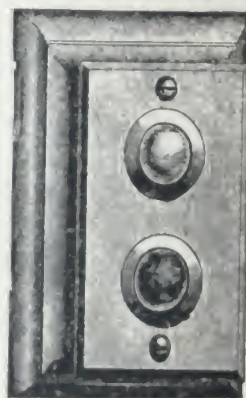
Also made in Gold bronze with two buttons. Price each . . . . . 1 15

# AUTOMATIC Gas Lighting Keys.

(Wood Base.)



**Style A.**



**Style B.**

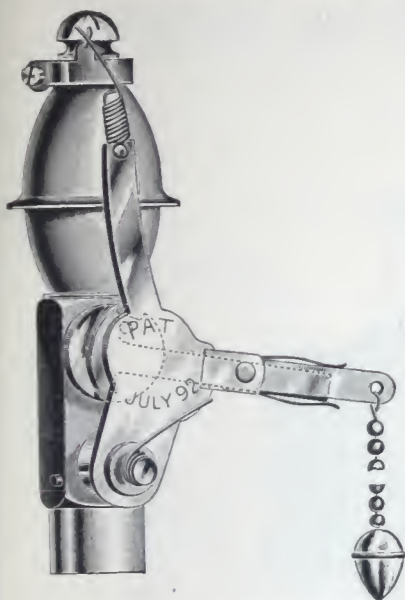
In Walnut, Ash, Oak, Cherry with nickeled trimmings and pearl buttons.

Style A, 2 Button Key for 1 Automatic . . . . .					\$ 60
" 4	"	"	" 2	"	85
" 6	"	"	" 3	"	1 20
" 8	"	"	" 4	"	1 50
" 10	"	"	" 5	"	1 85
" 12	"	"	" 6	"	2 25
" 14	"	"	" 7	"	2 75
" 16	"	"	" 8	"	3 25

Style B, 2 Button Key for 1 Automatic . . . . .					\$0 70
" 4	"	"	" 2	"	1 00
" 6	"	"	" 3	"	1 40
" 8	"	"	" 4	"	1 80
" 10	"	"	" 5	"	2 20
" 12	"	"	" 6	"	2 65
" 14	"	"	" 7	"	3 00
" 16	"	"	" 8	"	3 60



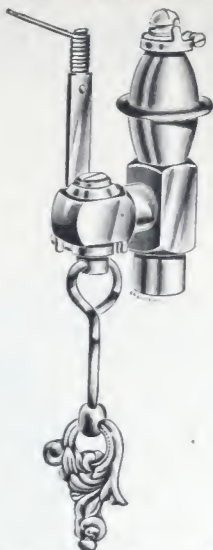
# Electric Hand-Lighting Gas Burners.



**Safety Pendant Burner**

Can always tell whether on or off.

List . . . . . \$1 00



**Tona Hand-lighting Burner**

Has Flexible stem. List . . . \$1 15



**Pierce Valve Burner**

Has but one contact will not short circuit. Can tell whether on or off.

Price . . . . . \$1 00



**Candle Burner**

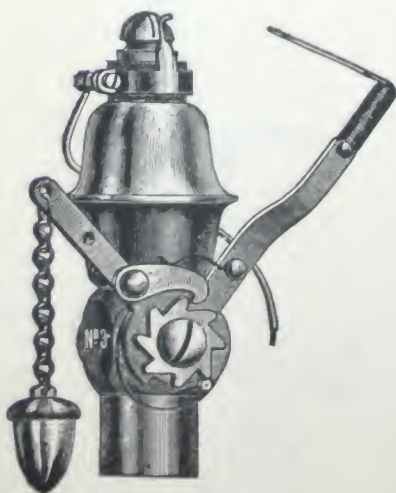
Made either as a valve or simple burner. Price . . . . . \$2 20

# Electric Gas Lighting Burners



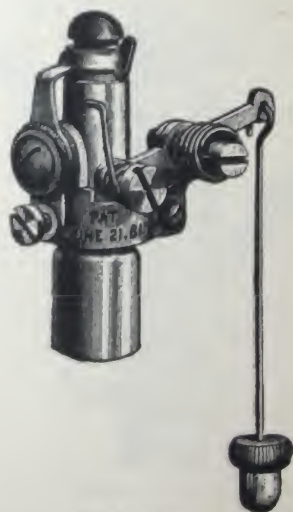
Boston Automatic

Price each, Polished brass	..... \$5 50
“ “ Nickel plated	..... 6 00



Ratchet Burner

Price each ..... \$1 15

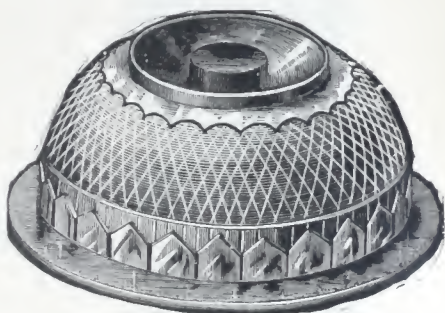
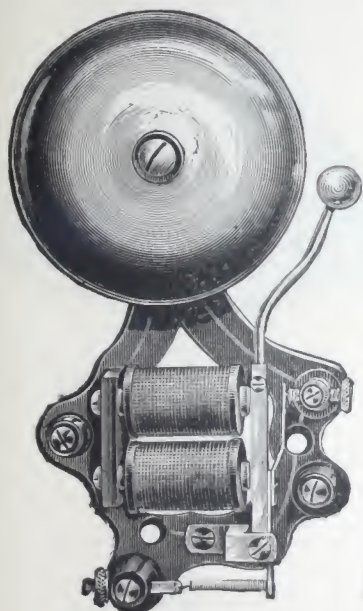


Plain Burner

Price each ..... \$0 55

# → Electric Bell Outfits, ←

## OUTFIT NO. 1

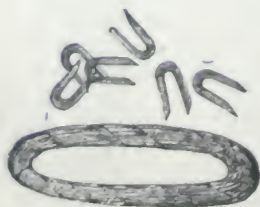
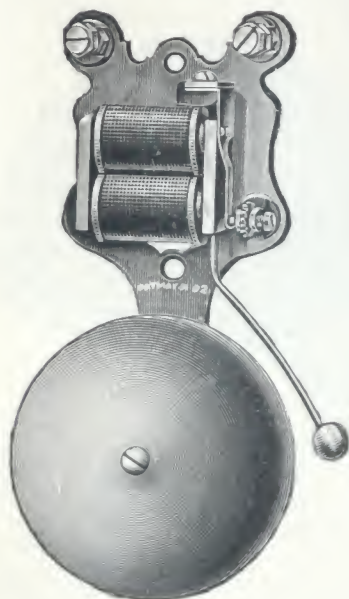


Consisting of one 3 inch "Emperor" bell, Bronze push with screw top, 75 feet of wire, box of staples and one cell Stewart carbon battery complete, with diagram of connections. Price . . . . . \$4 50



## ELECTRIC BELL OUTFITS—Cont.

## OUTFIT NO. 2.

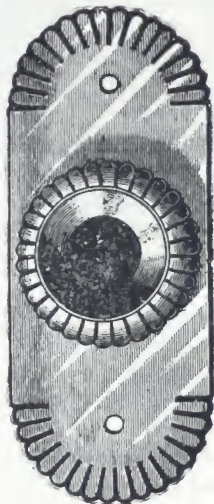
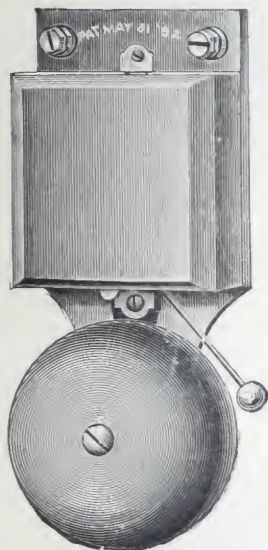


Consisting of one 3 inch Style Y. bell, 1 Wood or plain bronze push button, 75 feet of wire, 1 Box staples, 1 cell disque leclanche battery and diagram of connections.

Price . . . . . \$2 25

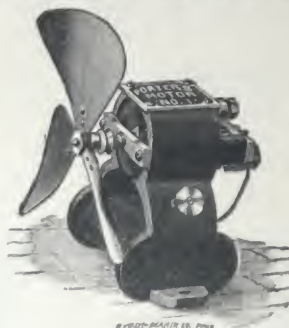
## ELECTRIC BELL OUTFITS—Cont.

## OUTFIT No. 3.



Consisting of one 3 inch style X. bell, one Stewart carbon battery, one style J. push, 75 feet wire, box of staples and diagram of connections. Price . . . . . \$3 00

# MOTORS.



No. 1. Motor

Designed to run on 1 cell of Acid Battery; weighs  $1\frac{1}{2}$  lbs; occupies space of 3 inches square. Is self starting, thoroughly well made in every particular and develops a wonderful amount of power for so small a Motor. Is capable of running a 5 inch Fan, small Music Boxes, Models, Mechanical Toys, etc. finished in fine enamel with brass trimmings.

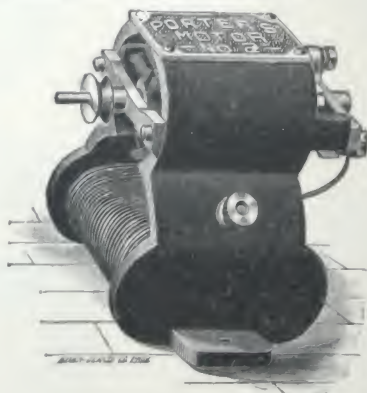
Price of No. 1 Motor, . . . . .	\$3 00
Price of No 1 Fan, 3 Blades, . . . . .	35

## FANS.

In addition to our Nos. 1, 2, and 3 Fans, we are prepared to furnish Fans as follows :	
7 inch, 4 Blades, . . . . .	\$ 88
8 " " . . . . .	1 00
9 " " . . . . .	1 25
10 " " . . . . .	1 50

Larger sizes to order. These Fans are nicely made, dipped and lacquered.

NOTE. In ordering Fans please state size of Motor.



No. 2. Motor

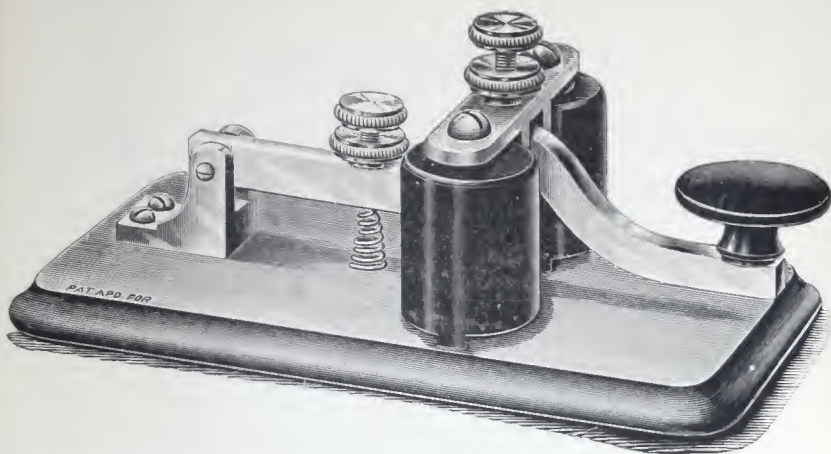
Weights 3 lbs. and occupies a space of about 4 inches square. This motor will run on any number of Volts from 1 to 10, and will develop 1-16 horse power on 6 Volts, 7.5 amperes. Carries 5 to 8 inch Fan efficiently. Is self starting, and will run all kinds of light machinery. We can truly say that this Motor is a marvel of power and efficiency, doing more work on the least current of any Motor of its size ever made. Is finely finished in enamel with brass trimmings.

Price of No. 2 Motor, . . . . .	\$5 00
Price of No. 2 Fan, 3 Blades, . . . . .	50

## Directions for use of Porter Motors.

See that the Brushes are properly adjusted, bearing lightly on Commutators for light currents, and more heavily for stronger currents. Use small amount of Sperm Oil, taking care that none gets on the Commutator.

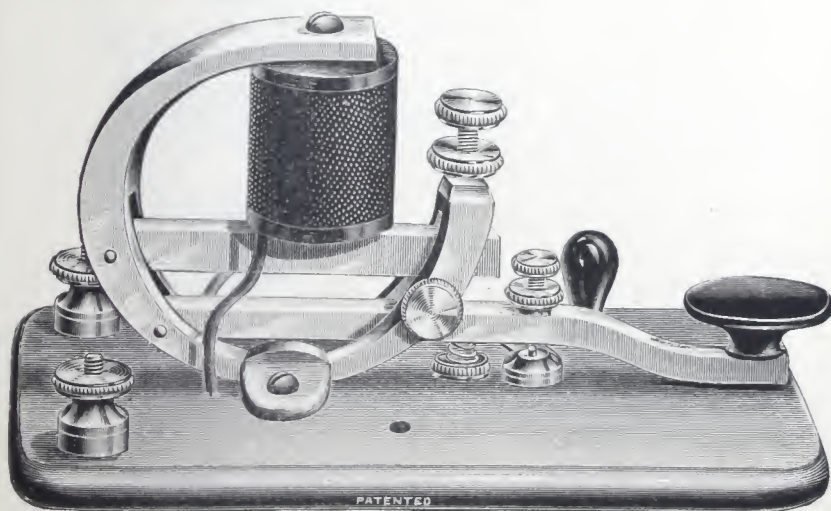




### THE LUDWIG MECHANICAL TELEGRAPH INSTRUMENT.

A mechanical set for learners, requiring no battery whatever. It has a full size key, a complete set of adjustments and provided with special resonators that give the correct sounder "click" to the instrument. Made in bronzed iron finish; also in brass, nickel plated.

Bronzed Iron Finish, each	\$1 25
Nickel Plated, Brass, " "	1 75



### LUDWIG MORSE TELEGRAPH INSTRUMENT.

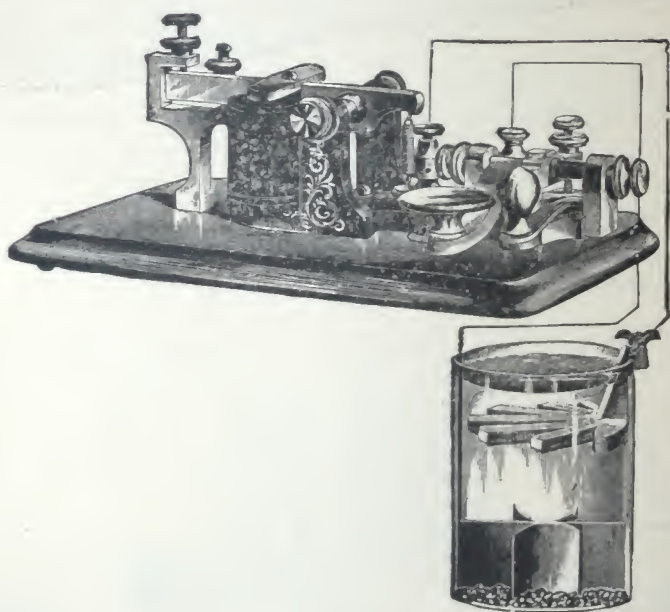
This set is the invention of an old time and experienced telegrapher and is the most practical, neat, compact and effective combination set on the market. It is equipped with a full set of adjustments throughout. Made in Bronzed Iron finish; also in Brass, nickel plated.

Bronzed Iron Finish, for local use, each	\$2 25
Nickel Plated, brass, " " "	2 75

This instrument, wound to 20 ohms for long lines will cost 50 cts., additional.

# “LEARNERS”

## Telegraph Outfit No. 1



"Learners" outfit complete (for local use)	.....	\$4 00
" Instrument "	.....	3 25
" " wound to 20 ohms	.....	4 00
" Sounder separate " "	.....	3 00
" " " (for local use)	.....	2 25

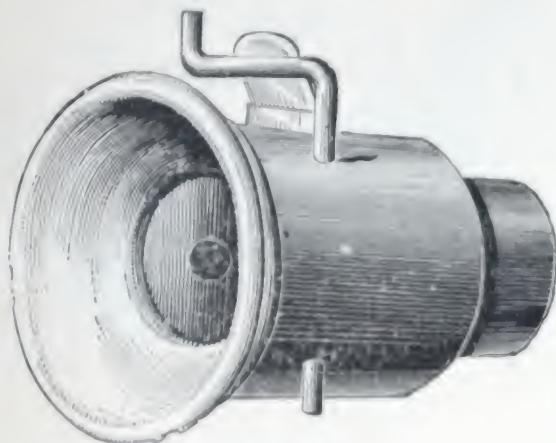
## Learners Outfit No. 2

Similar to No. 2 excepting that the Key lever and the sounder lever are in bronzed iron while the former are in solid brass.

Instruction books are included in each complete outfit both No. 1 and No. 2.

Complete wound for local use	.....	\$3 50
Instrument " " " "	.....	2 75

## —THE—

**Round Speaking-Tube Whistle.**

No. 158.

EXACT SIZE.

The Round Whistle. This style is made with heavy Porcelain Mouth pieces. They are made in two styles, one with *Japanned body* and the other with *Nickel body*. They are stronger and better made than any other cheap Whistle and intended for contract work.

## PRICE LIST

No.				PER DOZ.
158	Whistle with indicator,	Japanned body	.....	\$4 00
159	" without "	" " "	.....	3 50
258	" with "	nickel body	.....	6 00
259	" without "	" " "	.....	5 50

*The above styles are made Blank for Electric Work.*

**NEW ROUND SPEAKING-TUBE WHISTLE**

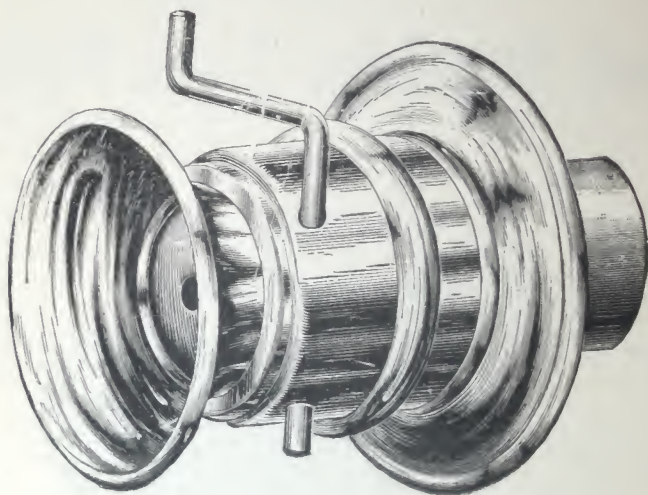
This Whistle is made the style as No. 158, but with lighter and shorter body and smaller whistle, and is intended for cheap contract work.

## PRICE LIST

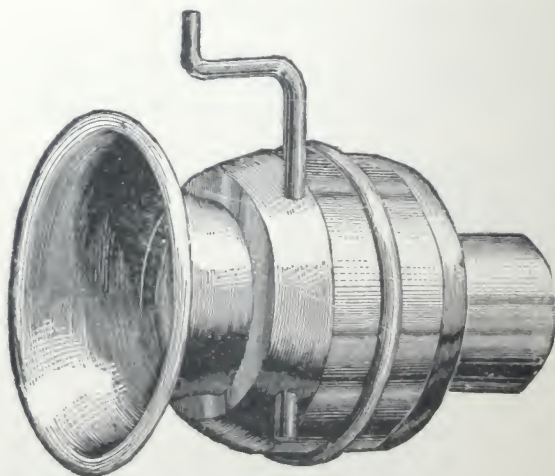
No.				PER DOZ.
1058	Whistle with indicator,	Japanned body	.....	\$3 50
1059	" without "	" " "	.....	3 00



## SPEAKING-TUBE WHISTLES.



No.				PER DOZ.
156	Whistle with indicator, nickeled . . . . .			\$14 00
157	" without " " " . . . . .			13 00
156 1/2	" with " gold bronze . . . . .			16 00
157 1/2	" without " " " . . . . .			15 00



No. 152.

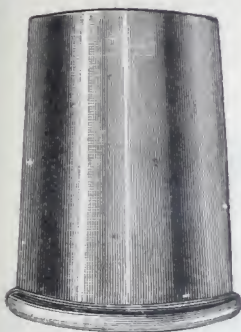
No.				PER DOZ.
152	Whistle with indicator, nickeled . . . . .			\$12 00
153	" without " " " . . . . .			11 00
152 1/2	" with " gold bronze . . . . .			14 00
153 1/2	" without " " " . . . . .			13 00
154	" with " cast dark or gold bronze . . . . .			24 00
155	" without " " " . . . . .			24 00

Nos. 152 to 153 1/2 are the Best Whistles for Flexible Tubes.

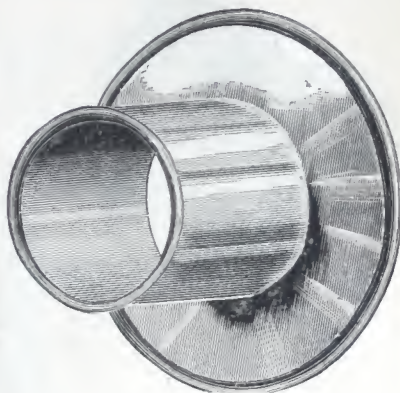
The above styles are made Blank for Electric Work.

# COLLARS

**For Protecting Ends of Flexible Tube.**



No. 79



No. 81

## PRICE LIST

No.	PER DOZ.
79 Nickeled Collars for ends, No. 78 . . . . .	\$4 00
80 Gold Bronze " " " . . . . .	4 50
81 Nickeled Flange Collars for " . . . . .	5 00
82 Gold Bronze " " " . . . . .	6 00



# Flexible Speaking Tube.

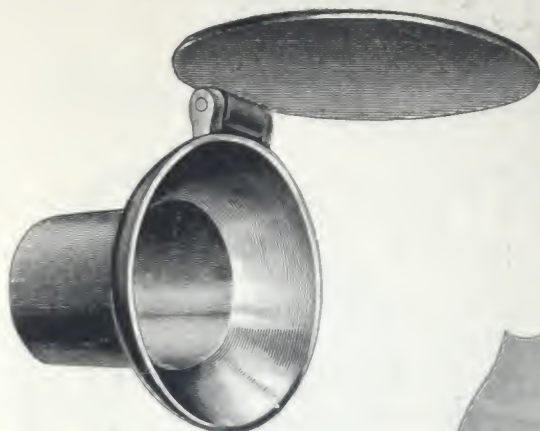
This tubing is made of Band Rubber Tube, Covered  
with Best Mohair.

## PRICE LIST

No.	PER FOOT.
78 Covered with Black and Green Mohair, 1 inch Diameter . . . . .	\$ 90
78½ " " Maroon Mohair " " . . . . .	90
78¾ " " Black and Green Mohair 1¼ inches " . . . . .	1 00
77 Without outside covering, 1 inch Diameter . . . . .	50

Any color of Mohair or silk to order.

## SPEAKING TUBE APPARATUS.

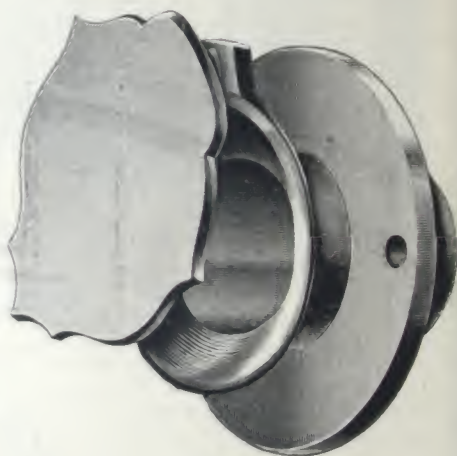


No. 1203

No. 1203

This mouth piece is made in polished bronze.

Price . . . . . \$0 45



No. 1202.

This mouth piece is made in polished bronze and is very neat in appearance. Price each . . . . . \$0 60

No. 1202

## Speaking Tube Supplies

Tin tube in five foot lengths.

Price 1 inch diameter per 100 feet	\$3 00
" 1½ " " " "	5 00
" 1½ " " " "	7 50

### Lengths and Sizes to Use.

100 feet long or under	use 1	inch	size
100 " to 200 feet	"	1 1/4	" "
200 " " 400 "	"	1 1/2	" "
400 " " 800 "	"	2	" "

### Square Elbows.

1	inch	per 100	.....	\$2 50
1 1/4	"	"	"	5 00
1 1/2	"	"	"	7 50

### Stamped Elbows.

1	inch per 100	\$4 50
1 1/4	" "	7 50
1 1/2	" "	10 50

### "T" Joints.

1 inch per 100	\$7 60
1 1/4 " "	12 00
1 1/2 " "	15 00
Tube holders per dozen	6 00



# Incandescent Lamps.



ANY VOLTAGE.

ANY BASE.

ANY CANDLE POWER.

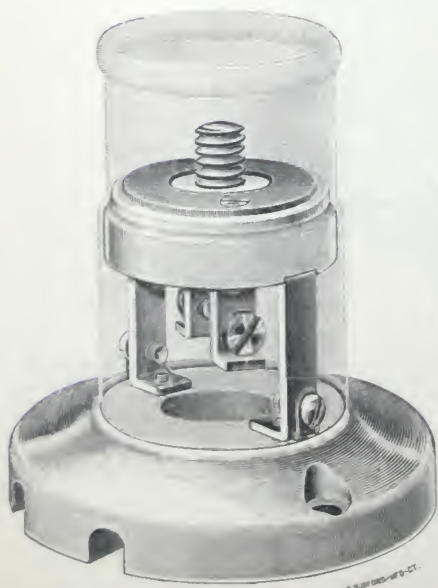
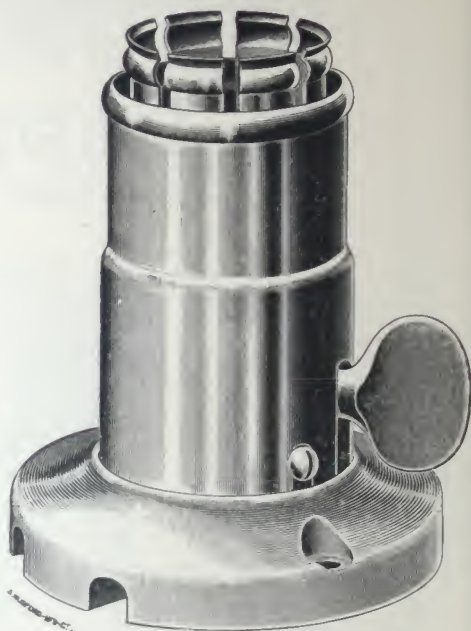
ELECTRIC LIGHT SUPPLIES.

# Perkins Wall Socket.

EASILY WIRED

INSTANTANEOUS BREAK

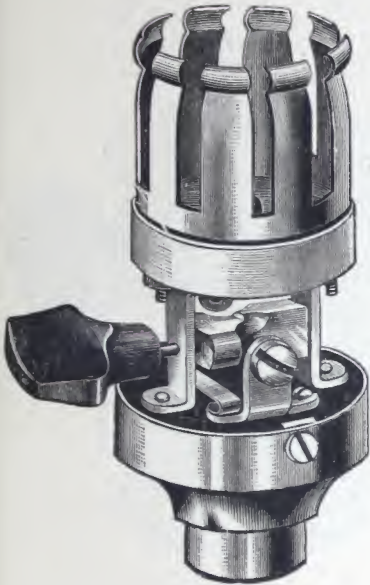
DURABLE CONTACT



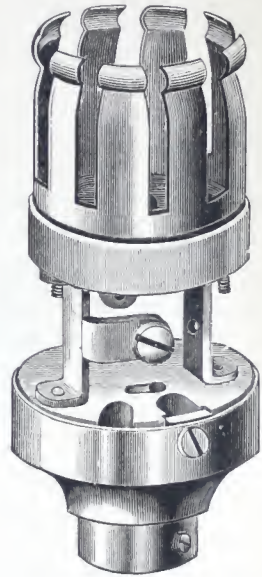
PORCELAIN INSULATION  
GROOVED BASE FOR WIRES  
NEAT IN APPEARANCE  
FOR THOMSON-HOUSTON  
AND WESTINGHOUSE BASES.  
BEST IN THE MARKET

Key Wall Sockets, list . . . . .	\$0 70
Keyless — “ “ . . . . .	60

# BRYANT SOCKETS.



### Key



## Keyless

Westinghouse	Key	socket (Porcelain)		\$0 60
"	Keyless	"	"	54
T. H.	Key	"	"	60
"	Keyless	"	"	54
Brush	Key	"	"	1 05
"	Keyless	"	"	90
U. S.	Key	"	"	1 05
U. S.	Keyless	"	"	90

## BRYANT WALL SOCKETS.

T. II	Wall Socket, Key	Porcelain Base	. . . . .	\$ 90
	"	Wood "	. . . . .	90
"	"	Keyless Porcelain "	. . . . .	75
"	"	Wood "	. . . . .	75
	Westinghouse Wall Socket, Key,	Porcelain Base	. . . . .	90
"	"	Keyless "	. . . . .	75



# PERKINS SOCKETS.

**Key and Keyless.**

A new socket with every advantage.

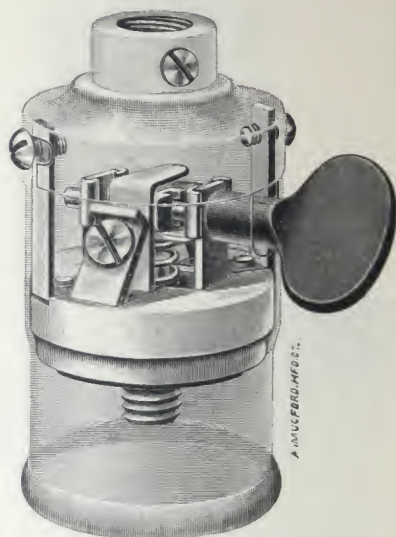
Plenty of room for wire.

Durable and effective contact.

A model for fixture or pendent wiring.

For T. H. and Westinghouse Bases.

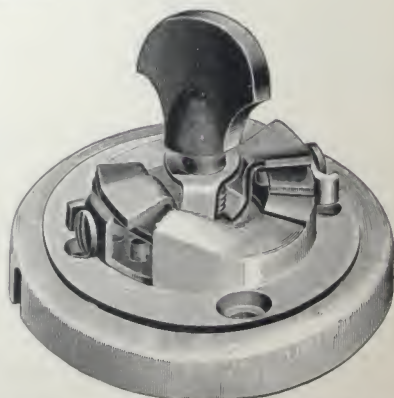
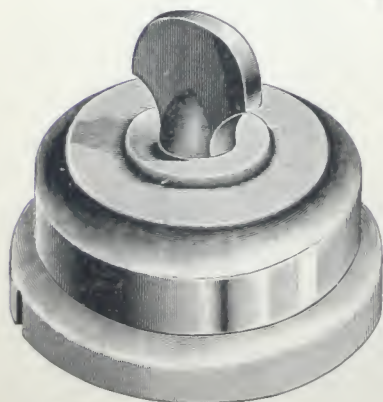
Porcelain insulation.



Key	Socket . . . . .	\$ 40
Keyless	" . . . . .	36.

## PERKINS S. POLE SNAP SWITCHES.

**New Style.**



No. 20, 5 Ampere . . . . .	\$ 38
" 21, 10 " . . . . .	45

In ordering give No. of switch as well as capacity in amperes.

## SWITCHES.

## PERKINS SNAP SWITCHES.

## Double Pole.



No.	1 1/2	10 Amp.	D. Pole,	Price . . . . .	\$1 50
"	2	15	"	" . . . . .	1 75
"	3	30	"	" . . . . .	2 75
"	4	40	"	" . . . . .	3 50
"	5	75	"	" . . . . .	9 00
"	6	150	"	" . . . . .	15 00
"	50	10	3 Way	" . . . . .	1 50
"	60	15	"	" . . . . .	1 50

## Single Pole.



(Old Style.)

No.	0	5 Ampere	S. Pole	Price . . . . .	\$0 38
"	1	10	"	" . . . . .	45

Can Always Tell Whether On or Off.

Composition Not Effected by Water.

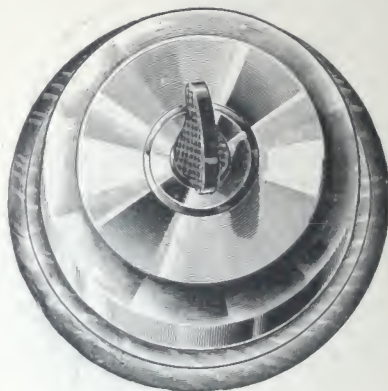
Handle Does Not Twist Off.

Slotted Base For Wires.

In ordering, be particular to give the No. as well as capacity in Amperes.

## SWITCHES—Cont.

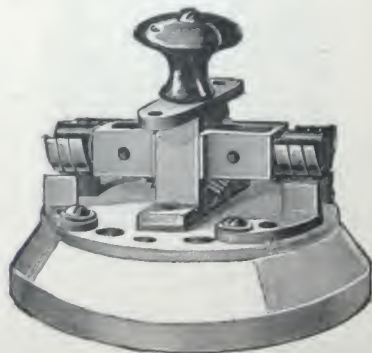
## PAISTE SNAP SWITCH.



5	Amp.	Paiste	S. P.	.....	\$ 45
10	"	"	"	.....	52
15	"	"	D. P.	.....	1 25
10	"	"	3 Point	.....	1 15

Prices on special designs of Paiste China Switches furnished on application.

## BRYANT SWITCH.

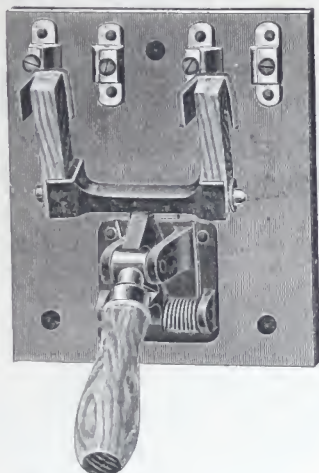


15	Amp.	D. P.	.....	\$2 00
25	"	"	.....	3 50
40	"	"	.....	4 50



## SWITCHES—Cont.

## DOUBLE POLE SWITCH.

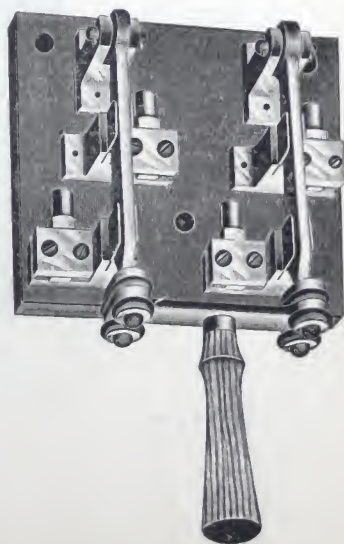


25	Amperes . . . . .	\$2 50
50	" . . . . .	3 50
100	" . . . . .	5 00
200	" . . . . .	7 00
400	" . . . . .	10 00
600	" . . . . .	15 00

## DOUBLE POLE STATION SWITCH.

SINGLE THROW.

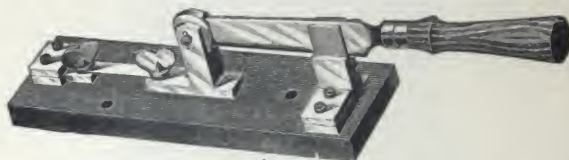
25	Amperes . .	Plain	\$5 00 . .	Polished	\$6 00
50	" . .	"	6 00 . .	"	7 00
75	" . .	"	7 50 . .	"	9 00
100	" . .	"	9 50 . .	"	11 50
200	" . .	"	12 00 . .	"	15 00
300	" . .	"	15 00 . .	"	19 00
400	" . .	"	19 00 . .	"	24 00
600	" . .	"	25 00 . .	"	32 50
800	" . .	"	35 00 . .	"	40 00
1000	" . .	"	50 00 . .	"	60 00



## SWITCHES—Cont.

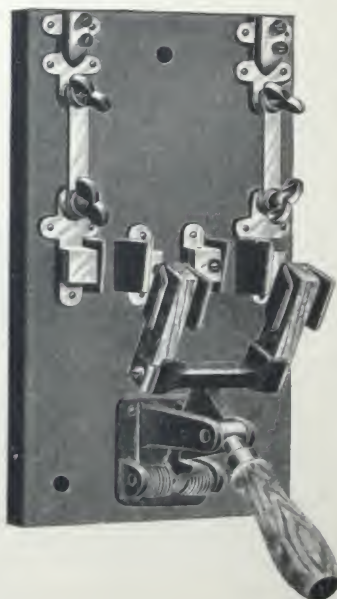
## SINGLE POLE STATION SWITCH.

## Single Throw.



25	Amperes,	. . .	Plain	\$2 50	With Fuse	\$3 10	Polished	\$3 00	With Fuse	\$3 75
50	"	. . .	"	3 00	"	3 75	"	3 50	"	4 40
75	"	. . .	"	3 75	"	4 65	"	4 60	"	5 50
100	"	. . .	"	4 75	"	5 80	"	5 75	"	7 00
200	"	. . .	"	6 00	"	7 25	"	7 50	"	9 00
300	"	. . .	"	7 50	"	9 00	"	9 50	"	11 50
400	"	. . .	"	9 60	"	11 50	"	12 00	"	14 75
600	"	. . .	"	12 50	"	15 50	"	16 25	"	20 25

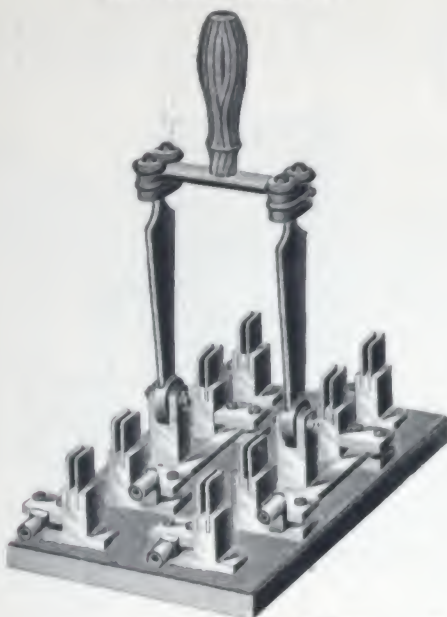
## DYNAMO SWITCH.



25	Amperes,	. . . . .	\$3 50
50	"	. . . . .	5 50
100	"	. . . . .	8 00
200	"	. . . . .	11 00
400	"	. . . . .	15 00
600	"	. . . . .	20 00

## DOUBLE POLE STATION SWITCH.

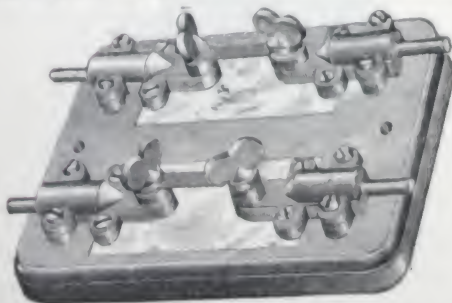
DOUBLE THROW.



25 Amperes	Plain, \$ 6 50	Polished, \$ 8 00
50 "	8 00	9 50
75 "	10 00	12 00
100 "	12 50	15 00
200 "	16 00	20 00
300 "	20 00	25 50
400 "	25 50	32 00
600 "	33 50	43 50
800 "	46 50	53 50
1000 "	66 50	80 00

## MAIN LINE FUSE BLOCK.

For Use on Main Line Circuit where no Switch is required.

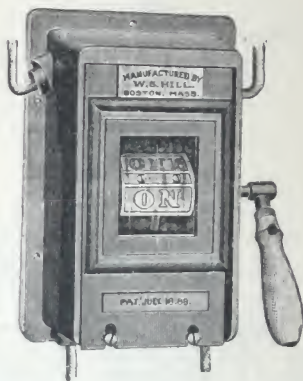


Double Pole	100 to 300 Amperes, on slate base	\$5 00
"	25 to 100 "	2 50
"	1 to 25 "	1 50
Single Pole	100 to 300 "	3 00
"	25 to 100 "	1 50
"	1 to 25 "	1 00



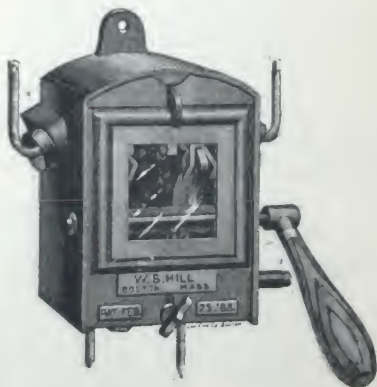
## SWITCHES—Cont.

## CUT OUT SWITCH.



This switch is made to meet the demand for a more reliable Cut Out switch for use on high potential, arc or series circuits. A strong iron case with heavy glass front protects all the parts from injury. Price of switch for ten ampere current. . . . \$5 00

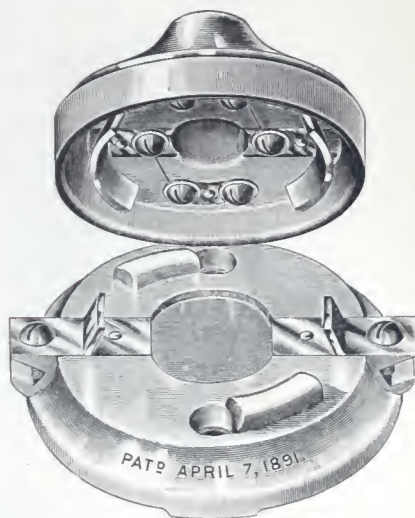
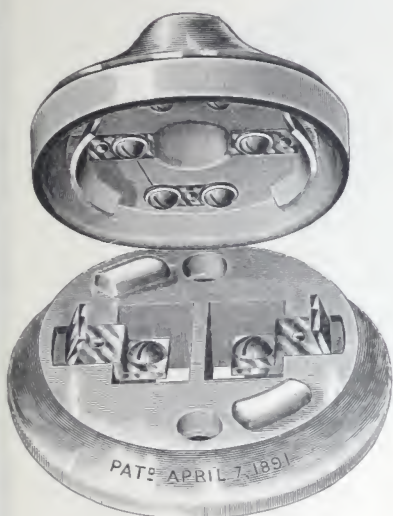
## DOUBLE POLE CONVERTER SWITCH.



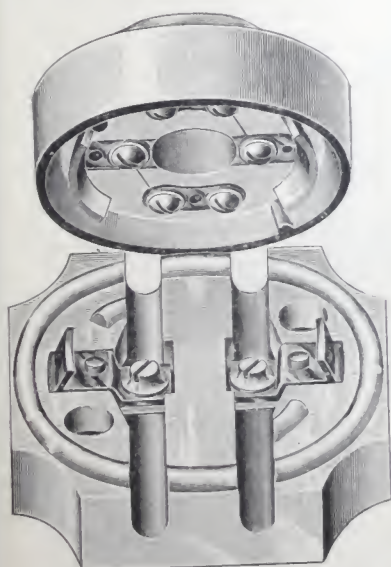
By the use of this switch, the converter can be completely cut off from the primary circuit, thereby avoiding all danger while working on it, or the secondary circuit. Insulated openings are provided for the four wires. The mechanism of this switch is encased in an iron box with glass front. Made for capacities of 20, 40, and 80 Amperes. 20 Amperes \$5 00. 40 Amperes \$6 00. 80 Amperes \$7 50.

We also furnish this switch, connected in series to be used as a single pole switch on one thousand volt circuits where twenty lamps are run in series for street lighting. A fuse connection can be used if desired.

# DOVE TAIL CEILING CUT OUTS.



- |  |       |
|--|-------|
| No. 101 For Cleat work, list . . . . . | \$ 25 |
| " 102 " Concealed work, list . . . . . | 25    |



No Screw Drivers.

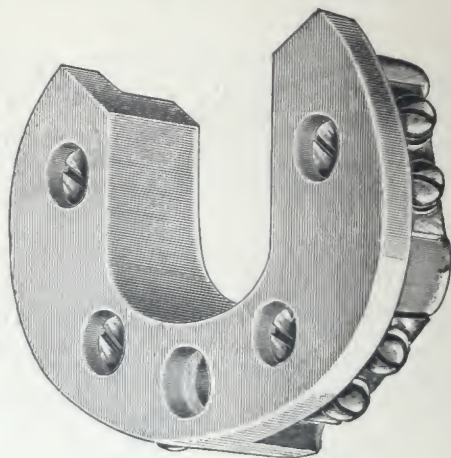
Easily Fused.

Best Vitrified Porcelain.

The only Screw Top Rosette in the  
market that is a success.

- |   |    |
|---|----|
| No. 106 Square Moulding (like cut) list . . . . . | 27 |
| " 104 Round Moulding " . . . . .                  | 25 |

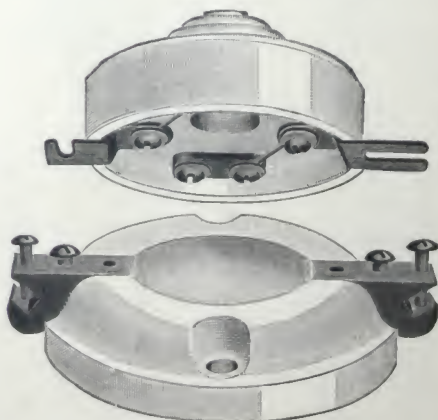
## ✦ Fixture Cut Out, ✦



Horse shoe Cut Out . . . . . \$ 20



## ✦ K, W, Cut Out, ✦

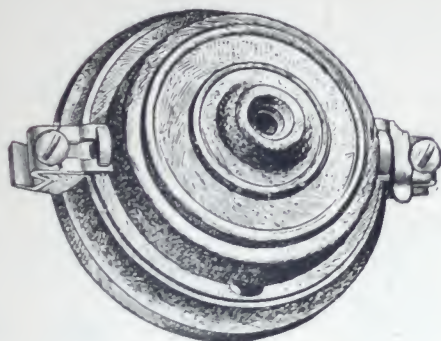


For Cleat Work . . . . .	\$ 20
" Concealed Work . . . . .	20
" Both Cleat and Concealed . . . . .	20



## MOULDED MICA ROSETTE CUT OUT.

(Smith Patent.)



*About two-thirds size.*

This rosette is practically indestructible. All parts embedded in the material and easily accessible for connections.

Made in brown or black. Price . . . . . \$ 30

## MOULDED MICA SOCKET.



Made in T. H., Westinghouse, and Edison styles.

These sockets consist of Moulded Mica with wires and contact pieces moulded within the material.

They are waterproof on top, and by the use of a rubber washer a water-tight joint is easily effected at the lower opening so that it is practicable to operate them under water.

Price . . . . . \$ 20  
Mica Wall Socket . . . . . 75

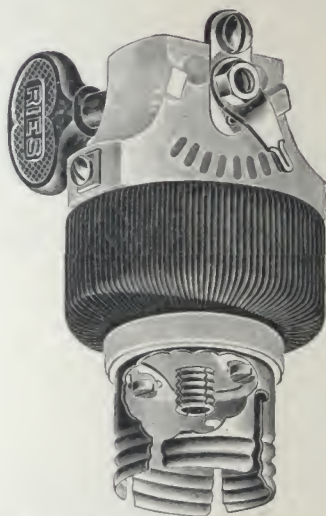
—THE—

# REIS REGULATING SOCKET

FOR ALTERNATING CURRENT  
INCANDESCENT LAMPS



Outside View Reis Regulating Socket.



Inside View Reis Regulating Socket

This Socket fills a long felt want, in that it enables the consumer to burn his incandescent electric lamps at any desired degree of brilliancy, ranging from a barely perceptible glow to the full candle-power of the lamp. For stores, offices private residences, hotels, hospitals, etc., where regulable light is desired, it has no equal. It not only permits of "turning down" the lamp, but materially increases its life, and effects a proportionate and very considerable saving in the amount of electrical energy consumed, thus or the first time placing the electric light on a par with gas for general and domestic illuminating purposes.

It can also be used for regulating the speed of alternating Fan Motors, Dental Machines, etc., and is highly recommended by the manufacturers of the machines for this purpose.

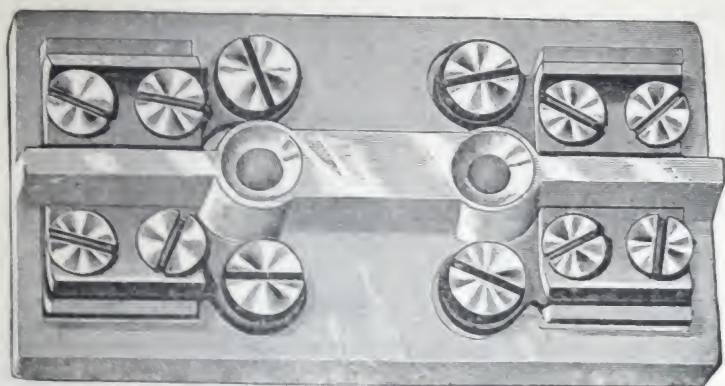
Made in the following sizes :

No.	Size	Voltage	Candle Power	List Price
No. 1,	50 to 55	16 to 25		\$3 00
" 2,	50 to 55	32 to 50	"	4 00
" 3,	100 to 110	16 to 25	"	4 00
" 4,	100 to 110	32 to 50	"	5 00

Liberal discount to the Trade.

In ordering please specify the style of lamp base.

## PORCELAIN CUT OUTS.



### MAIN CUT OUT.

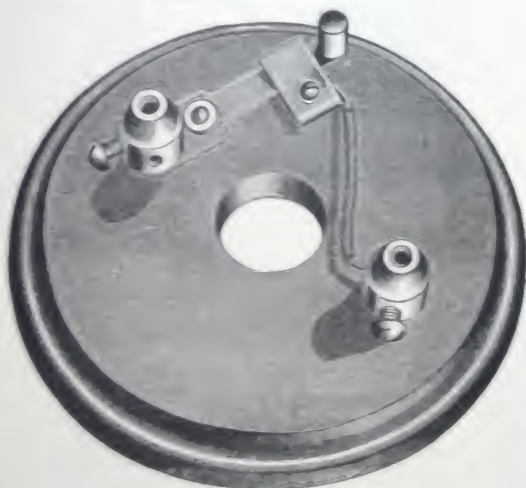
10 Amperes S. M. Style, Price	
25 " " " "	\$ 22
50 " " " "	30
100 " " " "	45
	80

### BRANCH C. OUT

10 Amperes S. M. Style, Price	
25 " " " "	\$ 22
50 " " " "	37
	65

### EDISON MAIN AND BRANCH BLOCKS WITH MICA COVER.

No. 1435—30 Amp. D. P., D. B., Cut out	\$ 90
No. 1465—30 " " Main "	77
No. 2835—30 " D. P., Single Branch, Cut out	1 05
No. 1565—75 " " Main	1 65

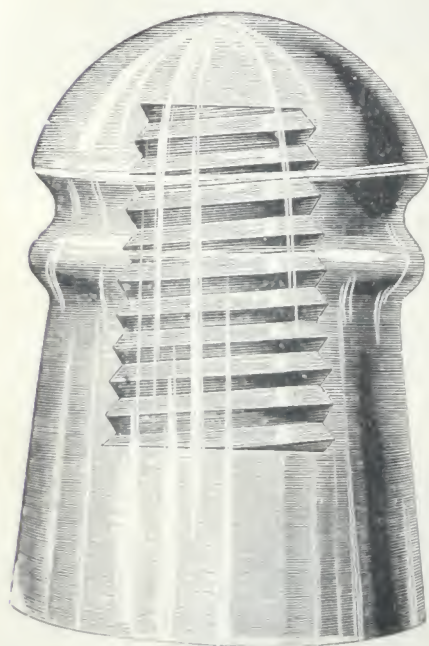


Ceiling Suspending Board.

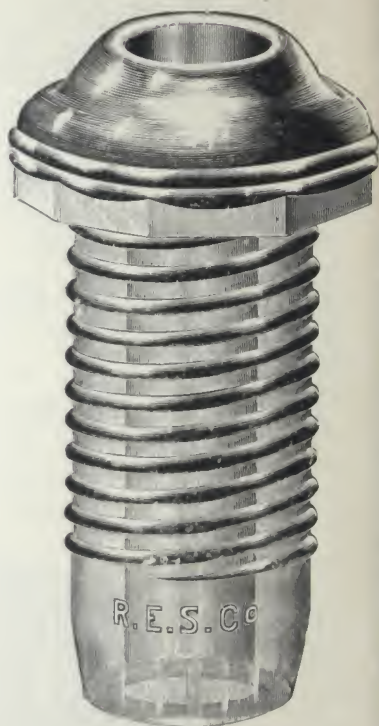
For inside frame lamp	\$21 00
" outside "	3 00



## Glass Insulators.



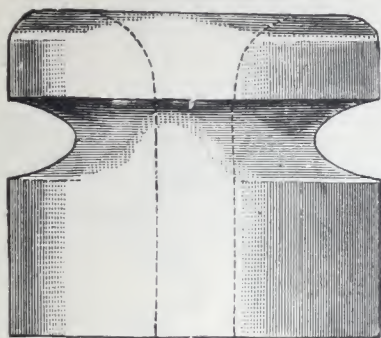
### Pony Insulator.



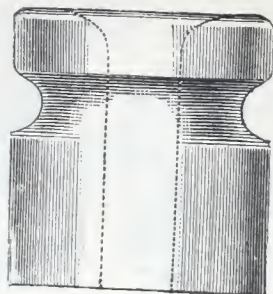
### Floor Insulator.

Pony pattern glass insulators	each				\$0 03
Deep Grove	"	"	"		05
Regular	"	"	"		04
Double Petticoat	"	"	"		06
Western Union	"	"	"		06
Glass floor insulators	3½ in	"			08
"	"	4½	"	"	10
"	"	6	"	"	12

## PORCELAIN INSULATORS.

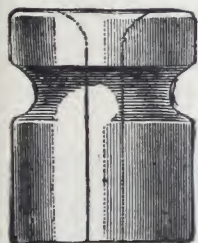


No. 3

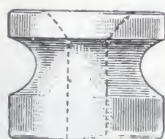


No. 4

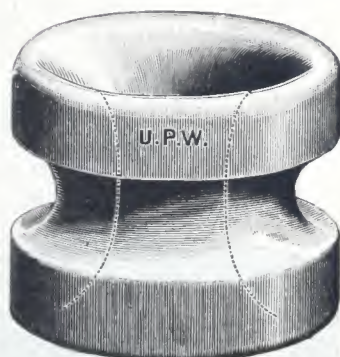
No. 3 per thousand	.....	\$28 00
No. 4 " " "	.....	14 00



No. 5



No. 6



No. 36

No. 5 per thousand	.....	\$8 00
No. 6 " " "	.....	5 00
No. 36 " " "	.....	20 00



No. 17

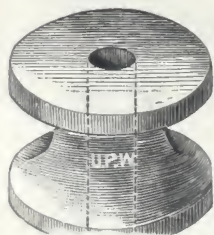
No. 17 per thousand . . \$10 00



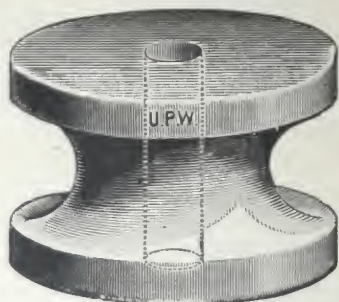
BATTERY INSULATOR

Battery insulator . . . \$15 00

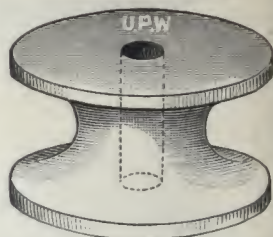
## PORCELAIN INSULATORS.—Cont.



No. 11



No. 13

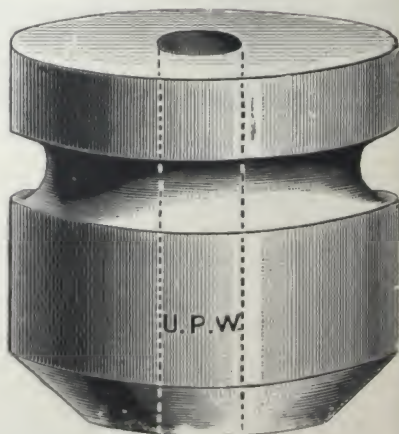


No. 12

No. 11 Per Thousand . . . . .	\$ 8 00
" 13 " " . . . . .	22 00
" 12 " " . . . . .	14 50



24



33

No. 24 Per Thousand . . . . .	\$33 00
" 33 " " . . . . .	33 00

Cuts full size





## "Vulca" Single Conduit.

$\frac{1}{4}$ inch per hundred feet	.....	\$3 70
$\frac{3}{8}$ " " "	.....	4 50
$\frac{1}{2}$ " " "	.....	5 50
$\frac{5}{8}$ " " "	.....	7 00
$\frac{3}{4}$ " " "	.....	8 50
1 " " "	.....	11 00
$1\frac{1}{4}$ " " "	.....	13 25

## "VULCA" DUPLEX CONDUIT.



$\frac{1}{4}$ inch per hundred feet	.....	\$10 00
$\frac{3}{8}$ " " "	.....	12 00
$\frac{1}{2}$ " " "	.....	14 00

## "S" OFFSETS AND ELBOWS.

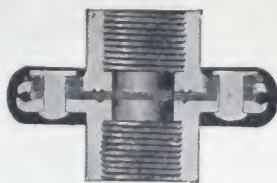


$\frac{1}{4}$ inch S. Offsets for single tube per 100	.....	\$ 9 00
$\frac{3}{8}$ " " " " "	.....	10 25
$\frac{1}{2}$ " " " " "	.....	12 00
$\frac{1}{4}$ inch Elbows " " " "	.....	7 00
$\frac{3}{8}$ " " " " "	.....	8 00
$\frac{1}{2}$ " " " " "	.....	10 00

## SOLID MICA INSULATING JOINTS.



Bracket Joints.

Combination Insulating and  
Blank Joint.

$\left. \begin{array}{l} 3 \times \frac{1}{2} \\ 2 \times \frac{1}{4} \\ 2 \times \frac{3}{8} \end{array} \right\}$	Brass \$ 60	Iron \$ 50	Brass \$1 00	Iron \$ 60
$\left. \begin{array}{l} \frac{1}{2} \times \frac{1}{4} \\ \frac{1}{2} \times \frac{1}{4} \\ \frac{1}{2} \times \frac{3}{8} \\ \frac{1}{2} \times \frac{1}{2} \end{array} \right\}$	" 50	" 60	" 1 55	" 81

## Dow Patent Adjusting Ball.



Bronze or Nickel, Acme Pattern . . . . .	\$20 00	per Doz
Special Gilt " . . . . .	18 00	"
Round " . . . . .	16 00	"
Common Adjusting ball (Wood) . . . . .	02	each

## Oak Pins and Brackets.



Oak Pins painted per 100 . . . . .	\$2 50
" Brackets " " . . . . .	2 50

## Socket Handles.

Screw Socket handles . . . . .	\$ 05
Walnut " . . . . .	05
Common " . . . . .	03



## GAS ATTACHMENTS.



No. 63

No. 63 Finished in polished Brass.

Insulated, per doz. . . . .	\$2 40
Plain " " . . . . .	1 80



No. 46

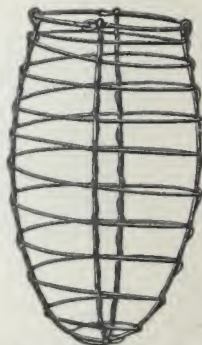
Insulated, per doz. . . . .	\$2 20
Plain " " . . . . .	1 70

### Lamp Guards.



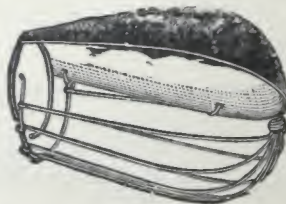
Expanding Wire Guard, requires no Shade Holder.

Price per doz. . . . . \$3 00

Plain Wire Guard, fits  $3\frac{1}{4}$  Shade Holder.

Price per doz. . . . . \$2 50

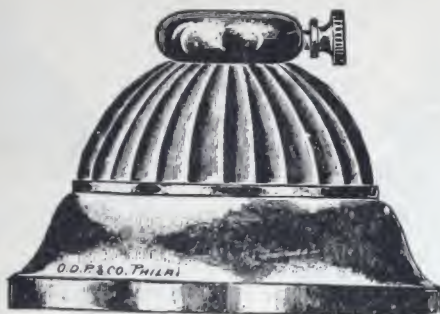
### Half Reflector Tin Shade No. 97 with Hinged Guard.

Fits any  $2\frac{1}{4}$  holder. For 16 C. P. lamp.

Price with guard per doz. . . . .	\$9 00
" without " " . . . . .	6 00

### Spark Arrestors.

Price each . . . . .	\$2 00
Wire netting, for arc. lamps . . . . .	25

**Canopy.**

Price each . . . . . \$ 35

**Cluster Bodies.**

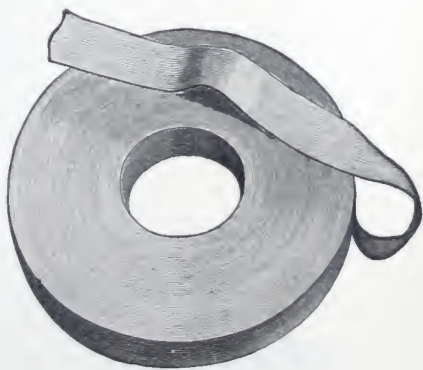
3 Light . . . . .	\$ 60	7 Light . . . . .	\$ 85
4 " . . . . .	65	8 " . . . . .	90
5 " . . . . .	70	9 " . . . . .	95
6 " . . . . .	80	10 " . . . . .	1 05

**Brass Pipe.**

$\frac{1}{2}$ inch, per foot . . . . .	\$ 30	$\frac{5}{8}$ inch, per foot . . . . .	40
$\frac{1}{2}$ " casing . . . . .	25	$\frac{5}{8}$ " casing . . . . .	30

**Water-proof Globe.**

Screw Globe only . . . . .	\$ . 50
Brass Caps . . . . .	60
Complete . . . . .	1 10
Vapor Proof Globe, Diam., 6 inch, height, 9 inches.	
Each . . . . .	\$2 00

**Tape.**

Tape per lb., black or white . . . . .	\$ 75
Pure Rubber tape, (sticks with- out heating) per lb. . . . .	90
Common Rubber tape . . . . .	90

**Pellinging Compound.**Price per stick ( $\frac{1}{2}$  lb.) . . . . . \$1 00**P. & B. Electrical Compound.**

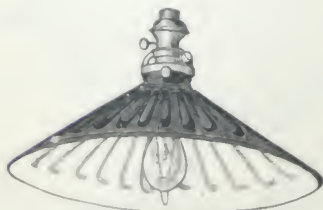
Per $\frac{1}{2}$ gal. can . . . . .	90
" gal. " . . . . .	1 75



### Electric Desk Shade.

This is one of the best shades for office use. It throws a mellow, pleasant light where it is wanted, and entirely shields the eyes from the glare. It has a ground glass door on bottom which opens easily when you want to fix a lamp.

9 inch Diameter . . . .	Price \$1 50
10 " " . . . .	" 1 70
12 " " . . . .	" 2 00

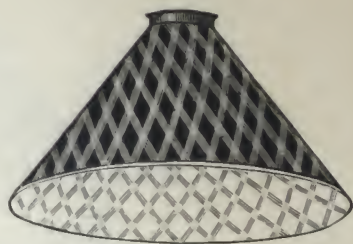


### Fluted Tin Shade.

Japanned Green on Top and Enamel White inside.

Made to fit any Socket or Holder.

This shade is stamped in one piece and is one of the finest tin shades in the market and is a medium depth and neat in appearance. 10 inch per doz . . \$4 50



### Deep Tin Corrugated Shade

BRIGHT INSIDE.

Made to fit any socket or holder.

Made in both deep and flat shapes.

Diameter	Corrugated 1 in	Enameled White
10 in-h, Flat, per doz	\$4 00	\$5 00
12 " " "	5 00	6 00
15 " " "	7 00	8 00
10 " Deep "	4 50	5 50
12 " " "	5 50	7 00



### Plain Street Hoods,

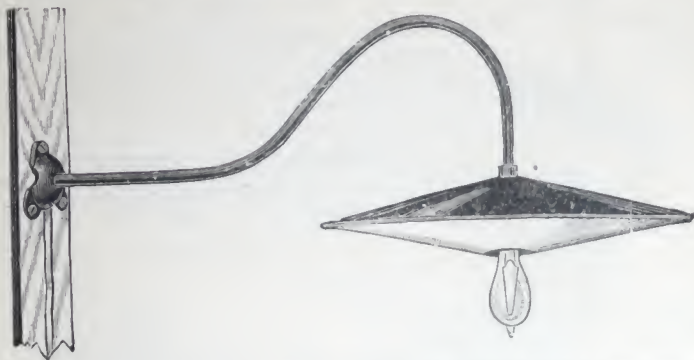
No. 100.

Painted green on top and white enamel reflector.

Size of Hood.	With Bracket Complete.	Hood Only.
15 inch, per doz . .	\$19 00	\$10 00
18 " " . .	22 50	13 50
22 " " . .	28 00	18 00



## Deflector Street Hoods No. 248.



The best reflector made for incandescent street lighting and a thorough protection for the socket. Painted green on the top and white enamel reflector.

Size of Hood.	With Bracket Complete.	Deflector Hood Only.
15 inch, per dozen . . . . .	\$ 29 00	\$ 20 00
18 " " " . . . . .	36 00	27 00
22 " " " . . . . .	46 00	36 00

## Corrugated Silvered Glass Flat Reflector for Clusters.

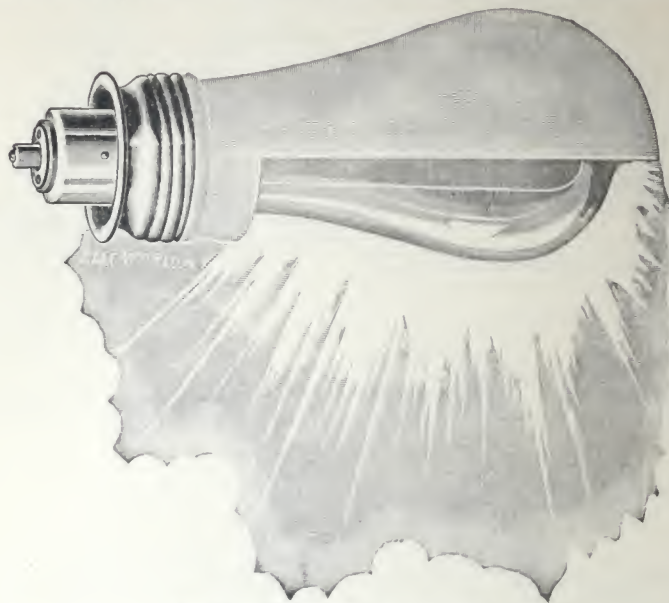


For lighting Show Windows, Stores, Offices, etc. This style is also made in Opal and Plain Mirror Glass.

## Flat Reflectors For Clusters.

Diameter.	With Fixture and Body.	Reflector Only.
18 inch, for 3 Lights . . . . .	\$ 8 50	\$ 6 00
22 " " 4 " . . . . .	11 50	8 00
24 " " 6 " . . . . .	13 50	10 50
30 " " 8 " . . . . .	20 00	15 00
36 " " 10 to 12 Lights . . . . .	30 00	22 50

## McCREARY HALF REFLECTOR SHADE.



## For 16 C. P. Lamps.

No. 1 Opal	Shades, per doz	\$8 00
" 2 Silvered	" "	9 50
" 3 Colored	" "	8 50

## For 32 C. P. Lamps.

" 4 Opal	Shades, per doz	9 00
" 5 Silvered	" "	11 00
" 6 Colored	" "	9 50

## McCREARY REFLECTOR SHADE.



7 inch	for 16 to 24 C. P. Lamp	per doz.	\$21 00
8 "	" " 16 to 24 "	" "	24 00
9 "	" " 32 C. P. "	" "	36 00
12 "	" " 50 "	" "	54 00

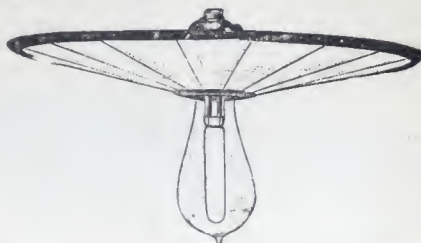
In ordering state kind of lamp to be used and candle power.

**SILVER PLATED MIRROR REFLECTORS.**

Style 10310.

Convex reflecting slightly below the horizontal in all directions.  
Used in stores for general illumination.  
For S. Holders  $2\frac{1}{4}$  and  $3\frac{1}{4}$  inches in diameter. Fitted for other holders upon order.

10 inch.	Price each	.....	\$1 10
12 "	"	.....	1 25
14 "	"	.....	1 40
16 "	"	.....	1 80
18 "	"	.....	2 25

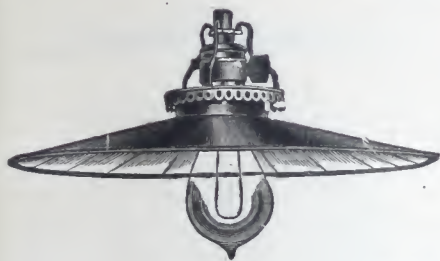


Style 1310.

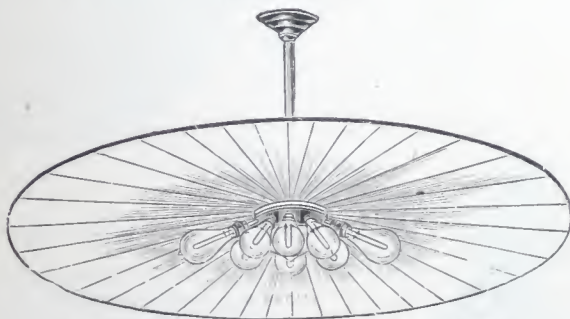
A flat cone for use with any system of incandescent electric lighting.

10 inch.	Price each	.....	\$1 00
12 "	"	.....	1 12½
14 "	"	.....	1 25
16 "	"	.....	1 60
18 "	"	.....	2 00

In ordering, state what system is used and size of collar or holder used.

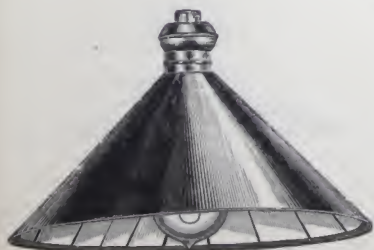


Style 1324.

**For Incandescent Clusters.**

Diameter in inches.	No. of Lamps.	Wired complete no sockets or lamps.	Reflector only.
20	3	13.50	\$4 00
24	4	17.25	7 00
30	6	23.00	10 00
35	8	32.00	16 00

Style 1316.



A deep cone lined with silver plated mirror plate glass increases the light from 12 to 15 times. Concentrates a powerful light on small space.

In ordering, state size of collar or holder also style of socket. Made in 10 and 12 inch.  
10 inch each ..... 1 10  
12 " " ..... 1 25





## SILVER PLATED Mirror Reflector

Style 1327

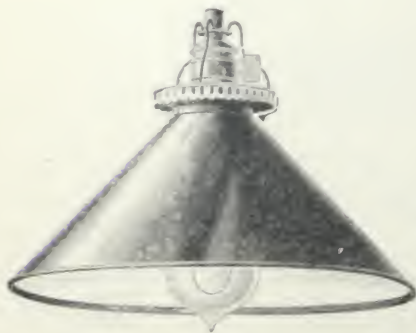
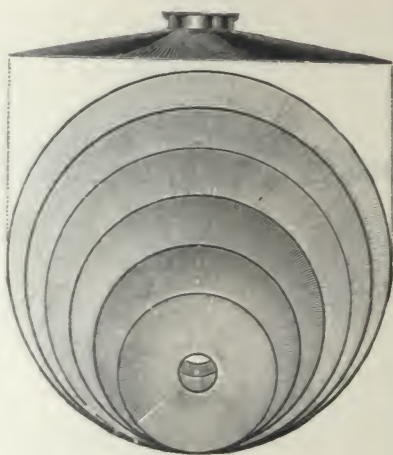
Diameter	No. of lamps	Reflector
20 inches	3	\$ 8 50
24 "	4	12 00
30 "	6	15 50
35 "	8	22 00

## INCANDESCENT REFLECTORS.

Green outside. Glossy enamel, white inside Six sizes All seamless.

Style 1301

Diameter	8 inches	Price per Doz.	\$ 3 00
"	10 "	"	3 75
"	12 "	"	4 75
"	14 "	"	6 50
"	16 "	"	8 50
"	18 "	"	11 00



Style 1361

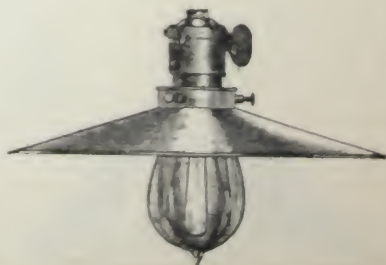
For shade Holders 2½ and 3½ inches in diameter also to order for other sizes or for special sockets.

Diameter in inches	8	per doz.	\$ 3 25
"	10	"	3 75
"	12	"	4 50

Style 1802

Same style as 1361 only a smaller cone. All seamless. For shade holders 2½ and 3½ inches in diameter also for sockets without using S. Holder.

Diameter	8	Price per doz.	\$ 3 50
"	10	"	4 50
"	12	"	6 00



## OPAL SHADES.



No. 154

2½ inch holder, 4 inch high, 5 inch diameter. Price per doz . . . \$2.50



No. 155

2½, 3½ or 4 in. holder. 4½ in. high.  
6, 7, 8, 9, or 10 in. diameter.

Price per doz 8 inch . . .	\$2.50
" " 7 " " " " " "	2.00
" " 6 " " " " " "	1.50
" " 5 " " " " " "	1.00
" " 4 " " " " " "	1.00



No. 156

2½ in. holder, 4 in. high, 5 in. diameter. Price per doz . . . \$2.50



No. 158

2½, 3½ or 4 in. holder. 4½ in. high.  
6, 7, 8, 9, or 10 in. diameter.

Price per doz. 8 inch . . .	\$2.50
" " 7 " " " " " "	2.00
" " 6 " " " " " "	1.50



No. 159

2½ or 3½ in. holder. 6, 7, 8, 9, 10, 11,  
12 in. etc. in diameter.

5 inch Diam.	Price per doz.	\$2.50
6 " "	" "	2.00
7 " "	" "	2.00
8 " "	" "	2.00
9 " "	" "	2.00
10 " "	" "	2.50
12 " "	" "	3.75



No. 160

To fit socket.	Price per doz.	\$2.50
5 inch Diam.	" "	2.50
6 " "	" "	2.00
7 " "	" "	2.00
8 " "	" "	2.00
9 " "	" "	2.50
10 " "	" "	3.00

# OPAL SHADES.

## No. 96

2½ or 3¼ inch fitter.

5, 6, 7, 8, 9, 10, 12 ins. etc. in diameter.

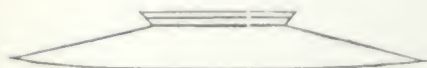
5 inch per doz . . . . .	\$2 20
6 " " . . . . .	2 30
7 " " . . . . .	2 40
8 " " . . . . .	3 00
9 " " . . . . .	4 40
10 " " . . . . .	5 50
12 " " . . . . .	6 75



## No. 60

2½ or 3¼ inch holder. 1½ inches high. 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, or 24 inches diameter.

6 inch per doz . . . . .	\$2 20
7 " " . . . . .	2 40
8 " " . . . . .	2 50
9 " " . . . . .	2 60
10 " " . . . . .	2 70
12 " " . . . . .	2 90
14 " " . . . . .	6 00
16 " " . . . . .	10 00
18 " " . . . . .	14 00
20 " " . . . . .	19 00
22 " " . . . . .	33 00
24 " " . . . . .	33 00



## No. 57

2½, 3¼, or 4 inch holder. 5 inches high. 10 inches diameter.

Price per dozen . . . . . \$4 00



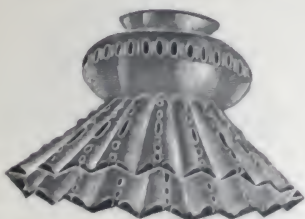
## No. 56

2½ or 3¼ inch holder. 3½ inches high. 6½, 7, diameter.

Price per dozen . . . . . \$2 50



## FANCY AND ORNAMENTAL SHADES.



No. 1667

Opal and Crystal.

2½ or 3½ in. holder. 4½ ins. high.  
6½ ins. diameter. Price per doz. \$5 50



No. 1932

2½ in. holder. 4½ ins. high. 5 inch  
diameter. Price per doz. \$6 50



No. 183

Made in Opalescent.

3½ inch holder. 6½ inches high. 5 inch  
diameter. Price \$5 00 per doz.



No. 180

Made in Opalescent, Amber and  
Canary.

2½ or 3½ inch holder. 4½ inches high.  
5½ inch diameter. Price per doz. \$4 40



No. 189

Made in Opalescent, Blue, Amber  
and Canary.

2½ or 3½ in. holder. 4½ ins. high. 5½ in.  
diameter. Price per doz. \$4 40



No. 190

Cut star.

3½ inch holder. 5½ inch high. 5½ diam.  
Price per doz. \$9 00.

## Fancy and Ornamental Shades.



No. 187

Made in Opalescent, Blue, Amber, Canary.

2¼ or 3¼ in. holder. 4¼ in. high. 5¼ in. diameter. Price per doz . . . \$5 50



No. 193

Made in Opalescent, Blue, Amber, Canary.

2¼ or 3¼ in. holder. 3¼ in. high. 6¾ in. diameter. Price per doz . . . \$4 40



No. 188

Made in Opalescent, Blue, Amber, Canary.

2¼ or 3¼ in. holder. 4 in. high. 5¼ in. diameter. Price per doz . . . \$5 50



No. 181

Made in Opalescent, Blue, Amber, Canary.

2¼ or 3¼ in. holder. 4 in. high. 7 in. diameter. Price . . . . . \$4 40



No. 178

Made in Opalescent, Amber, Canary, Opal.

2¼ or 3¼ in. holder. 5¼ in. high. 7 in. diameter. Price per doz . . . \$4 40



No. 182

Made in Opalescent, Blue, Amber, Canary.

2¼ or 3¼ in. holder. 4 in. high. 6¼ ins. diameter. Price per doz . . . \$4 40

NOTE:—The above shades are also made in Opalescent Ruby top, Blue top, Amber top, and Canary top. Prices for these styles quoted on application.

## SHADES—Cont.



## ARC GLOBES

Made in  $\frac{1}{2}$  Ground, Full Ground. Vertical Ground, Plain, Opal, and in different Colors. In ordering give measurements and for what style of lamp, and whether single or double carbon.



No. 1939

Etched crystal.

2 $\frac{1}{4}$  in. holder. 3 in. high. 6 in. diameter.

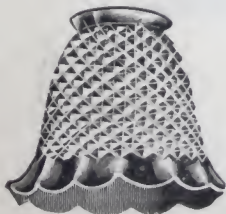
Price per doz . . . . . \$5 50



No. 185

2 $\frac{1}{4}$  in. holder. 4 $\frac{1}{2}$  in. high. 5 in. diameter,

Price per doz . . . . . \$3 30

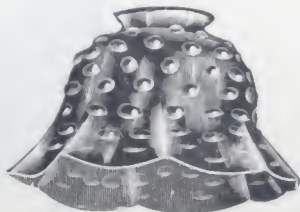


No. 1420

Pressed crystal.

2 $\frac{1}{4}$  in. holder. 4 in. high. 4 $\frac{1}{2}$  in. diameter.

Price per doz . . . . . \$1 90

No. 179 $\frac{1}{2}$ 

Made in Opalascnt. Amber, Canary, Opal.

2 $\frac{1}{4}$  or 3 $\frac{1}{4}$  holder. 4 in. high. 6 $\frac{1}{2}$  in. diam

Price per doz . . . . . \$4 40



## Combined Portable Desk Light and Wall Bracket.



Position — Portable.



Position as Wall Bracket.

Will fit T. H., Westinghouse, and Edison lamps.

Something very unique.

Price including Socket and shade in polished brass as shown. Price . . \$5 00



Price two lights . . . . .	\$ 7 00
" four . . . . .	10 00

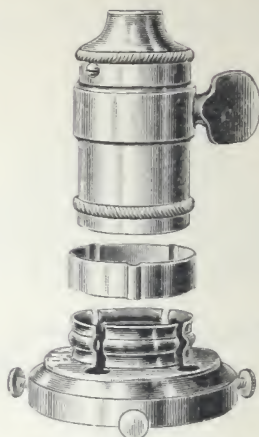


Desk Portable No. 2.

Square slate base.

Price each . . . . .	\$6 00
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## Ring Locking S. Holder.



For any socket.

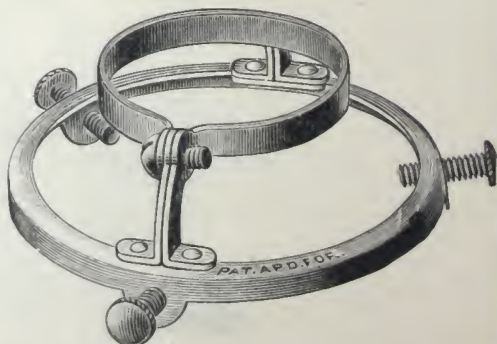
2½ S. Holder per dozen.	List	\$ 1 10
3¼ " " " "	"	1 80

In ordering, state for what kind of socket.

## Attachment Plug.



## Common Shade Holder



S. M. Porcelain Attachment Plug	\$ 60
S. M. Wood " "	30
T. H. " " "	30
T. H. (Regular) " "	30
Edison Attachment Plug	30

2½ per dozen	\$1 00
3¼ " "	1 50



# MAGNETO BELL FOR TESTING CIRCUITS.



FIG. 1

No. 1.—Has magnets giving 400 plateless vibrations per second, and is guaranteed to ring through from 1000 to 10000 ohms. Price . . . . . \$2.00

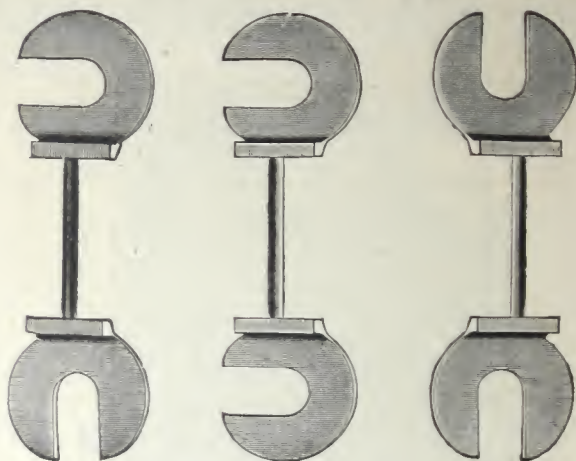
No. 2.—Is made by a cheaper but substantial pattern but differs from No. 1 in that it has not the plateless magnets, and will ring through from 500 to 1000 ohms. Price . . . . . \$1.00

## SOLDERING APPARATUS.



Wellingham Tenth inch . . . . .	\$1.00
Challenger . . . . .	\$1.00
Wire solder per lb. . . . .	50
Yager's soldering salts, per bottle . . . . .	50

## TESTED FUSE LINKS.



Price	3 to 10	Amperes		\$ 07
"	10 to 15	"		10
"	15 to 50	"		14
"	50 to 100	"		16
"	100 to 300	"		21
"	300 to 400	"		24
"	400 to 700	"		28
"	35 to 50	"	Railway links T. H. form (tested)	10
"	75 to 100	"	" " " " "	12



1 to 5	fuse wire	Ampere per lb.		\$1 50
6 to 14	"	"		1 35
15 to 100	"	"		1 25
Ribbon	50 to 100	"		1 75

Tubular Break arm . . . \$ 60

Permanent " . . . 55

Loop or Spreader Bracket left 55

" " " right 55

" " " forward 55



Wall bracket . . . \$ 35

Ceiling " double . . . 45

" " single . . . 35

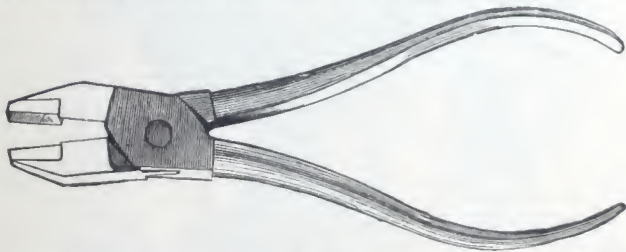
## INSPECTORS' TOOLS.



No. 231

Complete set in Morocco Case, containing everything necessary for adjusting telephone apparatus, telegraph and stock printing instruments etc. Price . . . \$6 00

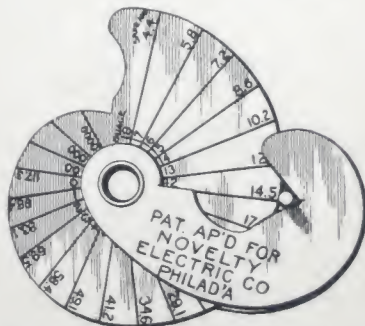
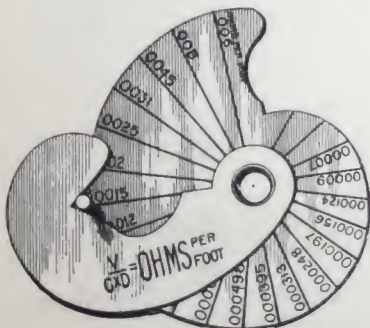
## STUBS' SIDE CUTTING PLIERS.



Stubs 4, 4½ and 5½ inch  
 " 6 inch  
 " 7 "  
 " 8 "  
 " 9 "

each \$ 90  
 " 1 00  
 " 1 50  
 " 2 00  
 " 2 50

per doz. \$10 00  
 " 11 00  
 " 18 00  
 " 24 00  
 " 28 00



Gives gauge of wire, capacity in amperes and the ohms resistance.

Price . . . . . \$1 00





# No. 14 FAN OUTFIT.



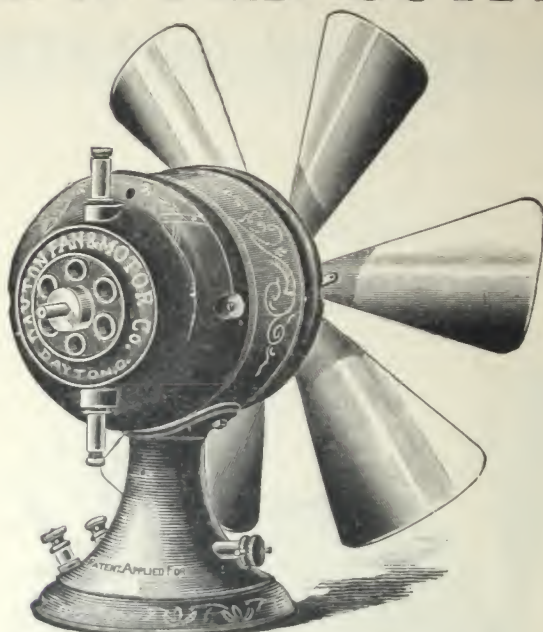
Wound for 110 Volts., direct current and arc circuits.

12 inch Fan and double end Motor, dipped brass, variable speed . . . . . \$47 50

	220 Volts..	500 Volts
Wound for		
12 inch Fan and Double End Motor, Dipped Brass	\$52 50	\$57 50
Guard extra, each . . . . .		2 50
Nickeled or polished brass trimmings (body japanned,) extra . . . . .		10 00

 In ordering, be particular to specify the voltage.

## No. 15 FAN OUTFIT.



Wound for 110 volts., direct current and are circuits.

14 inch Fan and Motor, Dipped brass Variable Speed . . . . . \$47 50

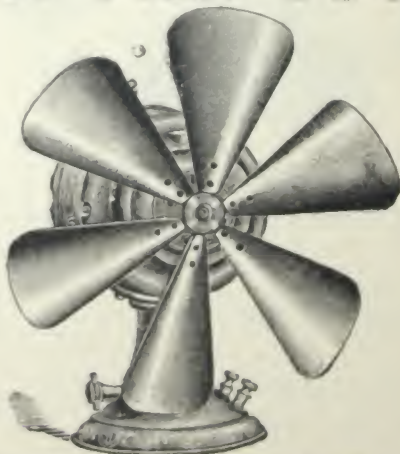
Wound for

	220 Volts	500 Volts
14 inch Fan and Motor Dipped Brass . . . . .	\$52 50	\$57 50

Guards extra, each, \$3 00

Nickeled or polished brass trimmings (body japanned) \$8 00 extra.


## No. 16 FAN OUTFIT.



Wound for 52 Volts., alternating current, 12 inch Fan and Motor, Dipped Brass, variable speed . . . . .

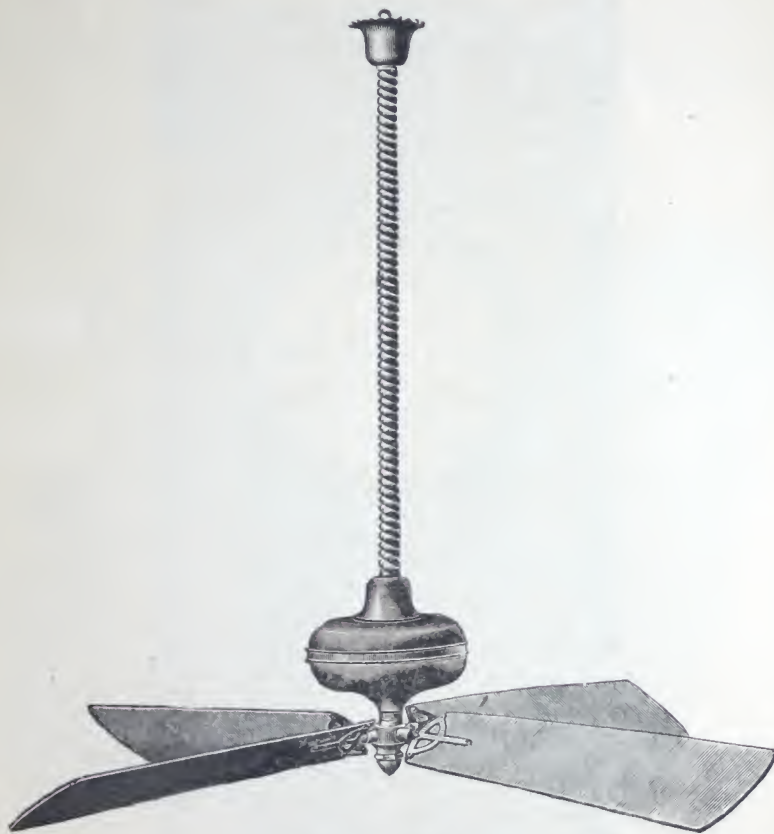
Guards extra each . . . . .	37 50
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Nickeled or polished brass trimmings body japanned, extra . . . . .	2 50
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 In ordering, be particular to specify the exact voltage. . . . .	5 00
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# ELECTRIC CEILING FAN,



(Patent applied for.)

Suspending Ceiling fans to suit ceilings to 12 feet in height, wound for 110 Volts., direct current. Polished Brass \$45 00 Nickerled \$42 00 Japanned \$40 00.


Wound for 220 volts direct current and 52 volts., alternating current, Polished Brass \$50 00 Nickerled \$47 50, Japanned \$45 00.

Speed regulator for 110 Volts, direct current and 52 Volts., alternating current \$8 00 extra.

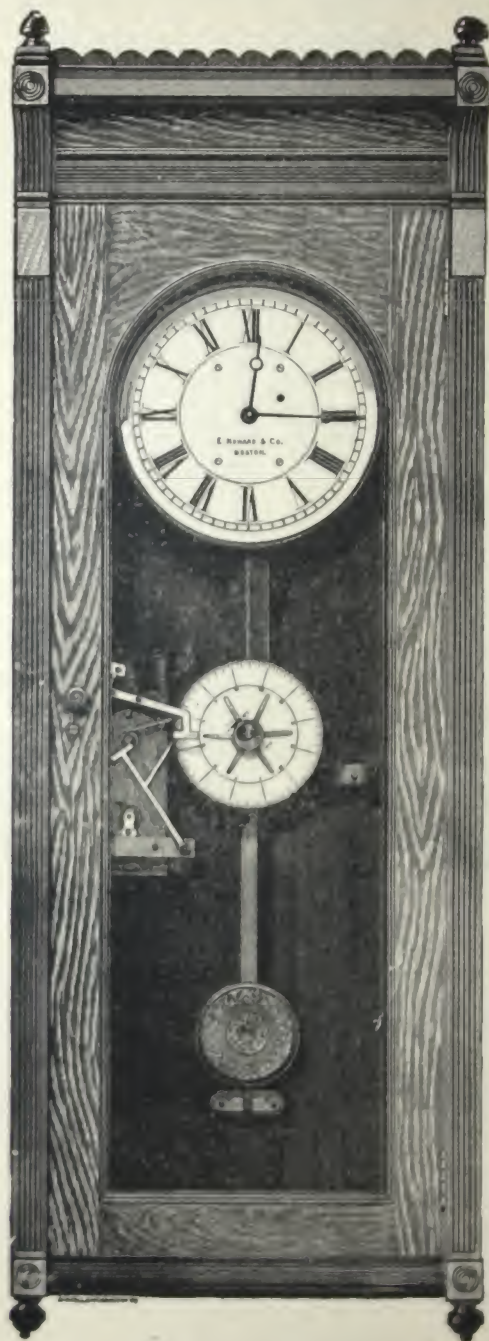
For each additional foot in height of ceiling \$1 00

Oak or Mahogany blades \$1 00 extra per fan.

We have in course of construction an electric ceiling fan wound for 500 volts, which we will shortly place upon the market.

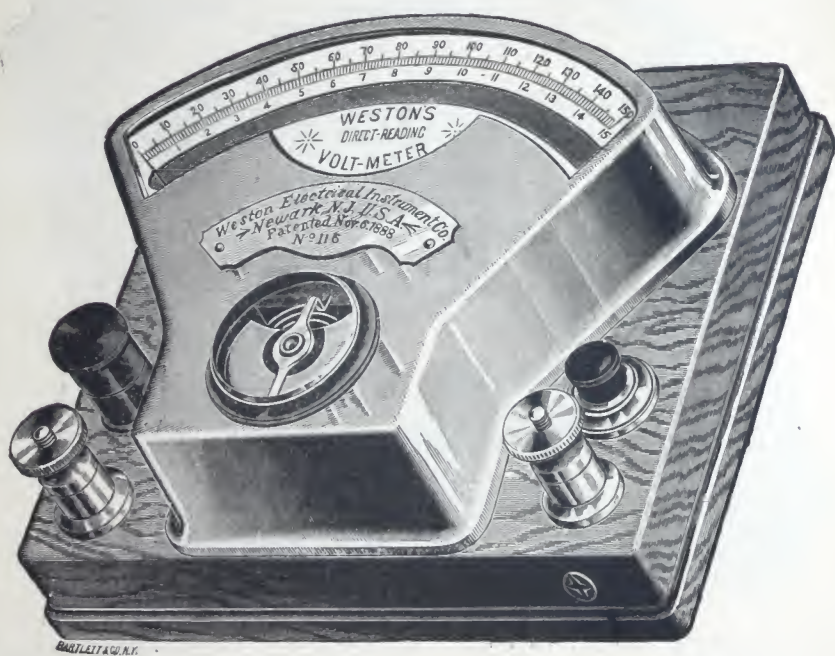
 In ordering, be particular to specify the voltage.

## WATCHMANS' CLOCK.



# WESTON'S

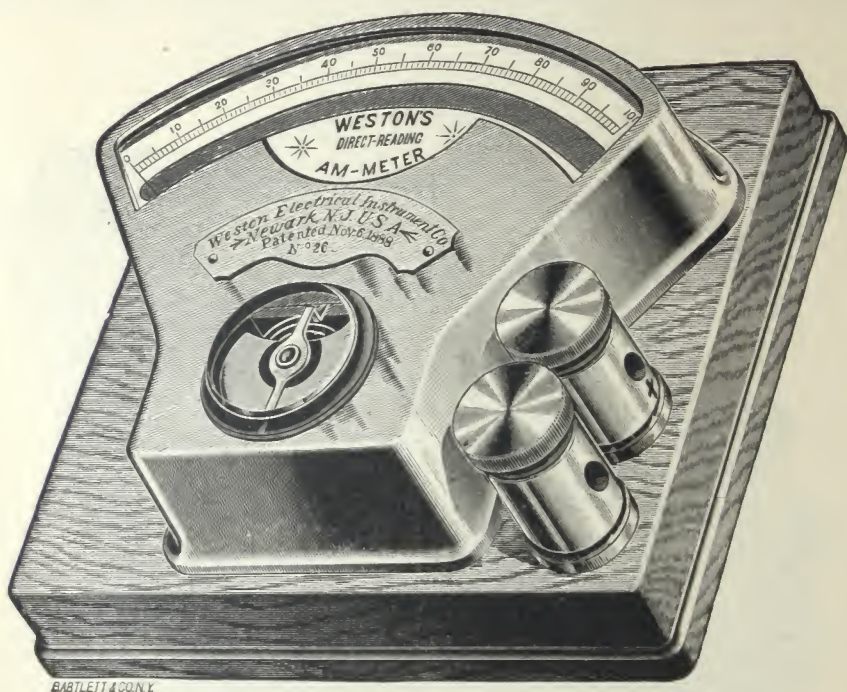
## Direct Reading Voltmeters.



No. 1	Scale 0 to 150 Volts, one scale	\$60 00
No. 2	" 0 to 150 " " calibrating coil	65 00
No. 3	" 0 to 150 " and 0 to 5 Volts, two scales	80 00
No. 4	" 0 to 150 " and 0 to 15 " "	80 00
No. 5	" 0 to 300 " one scale and calibrating coil	70 00
No. 6	" 0 to 450 " " " " " " "	75 00
No. 7	" 0 to 600 " " " " " " "	70 00
No. 8	" 0 to 600 " " " " calibrating coil	75 00
No. 9	" 0 to 600 " and 0 to 150 Volts, two scales	85 00
No. 10	" 0 to 600 " and 0 to 300 " "	85 00



# WESTON'S Direct Reading Ammeters.



No. 1— 5 Ampere scale . . . . .	\$70 00
No. 2—15     "     " . . . . .	70 00
No. 3—25     "     " . . . . .	70 00
No. 4—50     "     " . . . . .	70 00
No. 5—100   "     " . . . . .	75 00



## LEATHER CASES FOR ABOVE.

Without Wooden case . . . . .	\$6 50
With                 "     " . . . . .	7 50

## FIREPROOF

## → Incandescent Lamp Cord, ←



To meet the requirements of a cord suitable for Show Windows, Mill Rooms, and Work Shops, etc., combining good Insulating and Fire Proof qualities. It will not flash up and will not carry fire.

Conductor	Equal in Conductivity to	Silk per yard	Worsted or Linen per yard
10 No. 30 Wires	20 B & S.	12 cts.	7 cts.
16 No. 30 "	18 "	16 "	9 "
26 No. 30 "	16 "	19 "	12 "
42 No. 30 "	14 "	29 "	21 "
66 No. 30 "	12 "	40 "	32 "

## COMBINED

## Fire and Water Proof

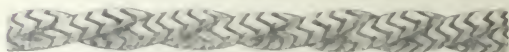
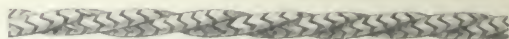
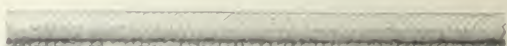
Which combines the qualities of our regular **fire proof** cord, with the **water proof** qualities of the rubber cord.

Especially designed to suit both the insurance inspectors and the electric light companies.

Conductor	Equal in conductivity to	Silk per yard	Worsted or Linen per yard
10 No. 30 Wires	20 B. & S.	14 cts.	8 cts.
16 No. 30 "	18 "	18 "	10 "
26 No. 30 "	16 "	21 "	12½ "
42 No. 30 "	14 "	32 "	23 "
66 No. 30 "	12 "	44 "	35 "

Our cords are equal in conductivity to the corresponding sizes of wire.

# INCANDESCENT LAMP ÷ CORD.



## RUBBER INSULATION.

Our Balata Insulated Cord has given universal satisfaction and is pronounced the Best Cord for Incandescent Work, but to supply the demand for a less expensive Cord, we have Rubber Insulated Cord, in which the Conductors are Insulated with Sheet Rubber.

Conductor	Equal in Conductivity to	Silk per yard.	Worsted or Linen per yard
12 No. 33 Wires,	22 B. & S.	12 cts.	7 cts.
10 No. 30 "	20 "	12 "	7 "
16 No. 30 "	18 "	16 "	9 "
26 No. 30 "	16 "	19 "	12 "
42 No. 30 "	14 "	29 "	21 "
66 No. 30 "	12 "	40 "	32 "

## →\*BALATA ÷ INSULATION.\*←

Conductors composed of Fine Wires Insulated with Balata and Braided with Silk, Worsted or Linen.

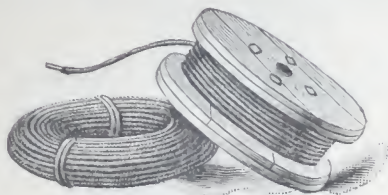
Two Conductors, twisted or flat. In different Colors or combinations of Colors

Conductor.	Equal in Conductivity to	Silk per yard.	Worsted or Linen per yard.
12 No. 33 Wires,	22 B. & S.	12 cts.	10½ cts.
10 No. 30 "	20 "	15 "	13 "
16 No. 30 "	18 "	22 "	20 "
26 No. 30 "	16 "	30 "	27 "
42 No. 30 "	14 "	45 "	40 "
66 No. 30 "	12 "	62 "	46 "

Our Cords are equal in conductivity to the corresponding sizes of Wire.



# ELECTRIC LIGHT LINE WIRE.



## Fire and Weather-Proof and Weather-Proof Insulation

(**BLACK**.)

Double Braided, and thoroughly saturated with a compound of high insulating and weather-proof qualities.

Hard to abrade and proof against heat, cold and moisture.

Nos. 0000- 8, B & S.,	.....	31 cts. per lb.
" 9-10, "	.....	32 "
" 11-12, "	.....	34 "
" 13-14, "	.....	36 "
" 15-16, "	.....	38 "
" 17-18, "	.....	40 "
" 19-20, "	.....	41 "

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## UNDERWRITERS.

(**Fire Proof**.)

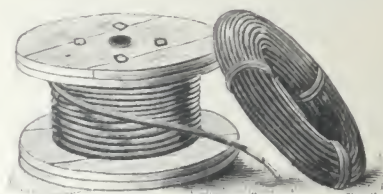
SMOOTH FINISH.

Nos. 0000- 8, B. & S Gauge,	.....	30 cts. per lb.
" 9-10, "	.....	31 "
" 11-12, "	.....	33 "
" 13-14, "	.....	34 "
" 15-16, "	.....	36 "
" 17-18, "	.....	38 "
" 19-20, "	.....	40 "

# ↗ **BISHOP STRANDED CABLES.** ↖

## WHITE CORE, RUBBER COVERED.

### Braided or Taped.

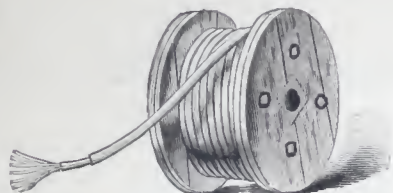


Equal to B. & S. No.	MADE OF	Price per 100 feet.		
		Medium Insulation	Heavy Insulation	Heavy Insulation. Lead Encased.
18—	3 No. 23 wires	\$2 25	\$2 40	\$4 90
16+	3 " 21 "	2 40	2 60	6 25
14+	3 " 18 "	3 00	3 40	7 25
12+	7 " 20 "	3 70	4 20	8 85
10+	7 " 18 "	5 00	5 60	12 00
9+	7 " 17 "	5 70	6 40	14 00
8+	7 " 16 "	6 50	7 30	16 50
7+	7 " 15 "	8 00	9 00	18 00
6+	7 " 14 "	9 50	10 70	20 00
5+	7 " 13 "	11 00	12 00	22 50
4—	7 " 075" "	12 50	14 00	26 50
4+	7 " 12 "	13 00	14 50	27 00
3—	12 " 065" "	15 00	16 80	30 00
2—	12 " 13 "	18 50	20 25	36 00
1—	19 " 065" "	24 75	27 00	43 00
0+	19 " 075" "	30 00	33 00	50 00
00—	19 " 083" "	40 00	44 00	63 00
000+	27 " 12 "	50 00	55 00	75 00
0000—	37 " 075" "	60 00	66 00	88 00

List price for Heavier Strands with Medium Insulation, 28 cents per foot, for each 100,000 C. M., or with Heavy Insulation, 31 cents per foot for each 100,000 C. M.

We handle all kinds of Bishop's Cable Wires etc. Prices quoted upon application.

# LEAD ENCASED WIRES AND CABLES.



B. & S. No.	20	Area	Circ.	Mils.	1,024	Price per foot	30	cts.
"	"	19	"	"	1,253	"	"	3.0
"	"	18	"	"	1,624	"	"	3.45
"	"	16	"	"	2,581	"	"	4.2
"	"	14	"	"	4,110	"	"	5.4
"	"	12	"	"	6,528	"	"	7.2
"	"	10	"	"	10,381	"	"	9.0
"	"	9	"	"	13,110	"	"	10.2
"	"	8	"	"	16,512	"	"	12.0
"	"	7	"	"	20,822	"	"	15.0
"	"	6 stranded	"	"	26,244	"	"	17.7
"	"	5	"	"	33,102	"	"	19.5
"	"	4	"	"	41,742	"	"	21.75
"	"	3	"	"	52,634	"	"	24.3
"	"	2	"	"	66,373	"	"	27.5
"	"	1	"	"	83,693	"	"	31.5
"	"	0	"	"	105,592	"	"	40.5
"	"	00	"	"	133,079	"	"	46.5
"	"	000	"	"	167,805	"	"	54.0
"	"	0000	"	"	211,600	"	"	63.0
"	"	"	"	"	250,000	"	"	71.0
"	"	"	"	"	300,000	"	"	80.0
"	"	"	"	"	400,000	"	"	100.0
"	"	"	"	"	500,000	"	"	118.5

The above prices are for Cables suitable for Low Tension Currents.

Special prices on Cables to carry from 400 to 3000 Volts.

An additional charge is made if the Cables have the extra braiding outside the lead cover.

## Lead Encased Cables for Underground.

No. of Con.	2	B. & S.	Per foot	No. 14,	12 cts.	No. 16,	10 cts.	No. 18,	8.5 cts.
"	3	"	"	"	17	"	14	"	12.5
"	4	"	"	"	21	"	17	"	15
"	5	"	"	"	24	"	20	"	17
"	6	"	"	"	26	"	22	"	19
"	7	"	"	"	28	"	24	"	21
"	8	"	"	"	30	"	26	"	23
"	10	"	"	"	42	"	29	"	25
"	15	"	"	"	55	"	41	"	36
"	25	"	"	"	79	"	64	"	52
"	50	"	"	"	1 38	"	1 12	"	82
"	100	"	"	"	2 16	"	1 80	"	1 29



## SAFE CARRYING CAPACITY.

The following table gives the gauges, the corresponding diameters in one thousandths of an inch called, generally, mils, the area in circular mils—that is, the area as compared with a circle one-thousandth of an inch in diameter, the resistance in ohms per thousand feet, and the safe carrying capacity.

American gauge Brown & Sharpe's number.	Diameter, mils.	Circular mils 1 mil = .001 inch.	R. ohms per 1,000 feet.	No. Amperes
0000	460.000	211,600.00	.0490	175
000	409.640	167,805.00	.0638	145
00	364.800	133,079.40	.0780	120
0	324.950	105,592.50	.0983	100
1	289.300	83,694.20	.1240	95
2	257.630	66,373.00	.1564	70
3	229.420	52,634.00	.1972	60
4	204.310	41,742.00	.2486	50
5	181.940	33,102.00	.3136	45
6	162.020	26,250.50	.3954	35
7	144.280	20,816.00	.4987	30
8	128.490	16,509.00	.6288	24
9	114.430	13,594.00	.7928	20
10	101.890	10,381.00	1.000	17
11	90.742	8,234.00	1.2607	15
12	80.808	6,529.90	1.5898	13
13	71.961	5,178.40	2.0047	10
14	64.084	4,106.80	2.5908	8
15	57.068	3,256.70	3.1150	5.5
16	50.820	2,582.90	4.0191	5
17	45.257	2,048.20	5.0683	4
18	40.303	1,624.30	6.3911	3.5
19	35.390	1,252.40	8.2889	3
20	31.961	1,021.50	10.163	2.5

## Approximate Weight of Insulated Wire & Cables

No. B. & S. Gauge.	Pounds per 1000 feet.		
	Underwriters.	Fire & Weather-proof.	Weather-proof.
<b>STRANDED</b>			
0000		1000	858
000		850	701
00		685	525
0		580	405
<b>SOLID</b>			
0000	750	825	769
000	583	640	608
00	467	525	485
0	374	430	365
1	315	351	290
2	265	292	228
3	215	237	183
4	157	175	150
5	130	150	118
6	109	125	100
7	90	106	79
8	72	85	65
10	52	67	48
12	35	42	26
14	26	32	20
16	20	25	15
18	17	20	10

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